



SYSTEM AIR CONDITIONER

Basic Model: DH140EAV UH140EAV
Model: DH105CAV UH105CAV
DH140CAV UH140CAV
Model code: DH105CAV UH105CAV
DH140CAV UH140CAV

SERVICE Manual

AIR CONDITIONER



DH105CAV



DH140CAV



UH105/140CAV

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Refer to the service manual in the GSPN(see the rear cover) for the more information.

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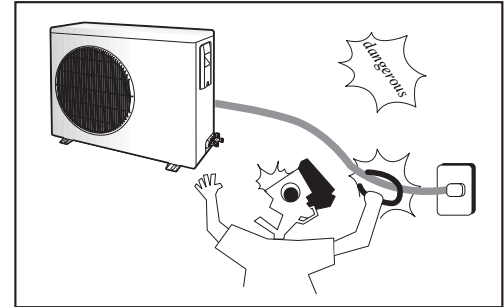
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1. Precautions

1-1 Installing the air conditioner

- Users should not install the air conditioner by themselves.
Ask the dealer or authorized company to install the air conditioner except the window-type air conditioner in U.S.A and Canada.
- If you don't install the air conditioner properly, it may cause a fire, a water leakage or an electric shock.
- You must install the air conditioner according to the national wiring regulations and safety regulations.
- Install the indoor unit higher than 8.2ft(2.5m) from the floor to avoid the injury caused by the operation of the fan. (except the window-type air conditioner)
- The manufacturer is not responsible for any accidents or injury caused by an incorrect installation.

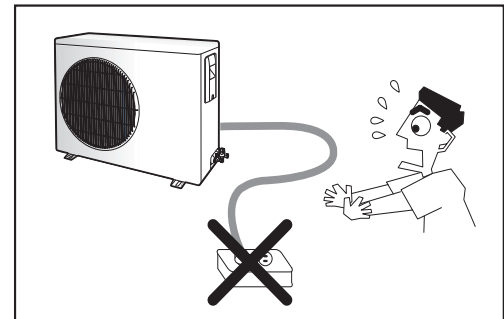
When installing the built-in type air conditioner, keep all electric cables such as the power cable and the connection cord in pipes, ducts, or cable channels to protect them from the danger of impact or any other incidents.



Avoid Dangerous Contact

1-2 Power supply and circuit breaker

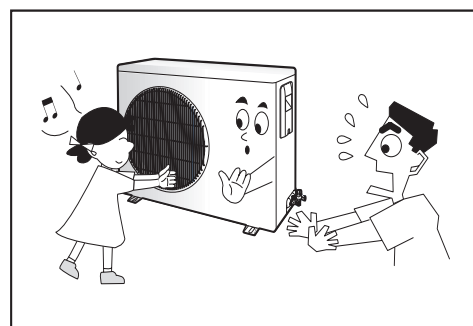
- If the power cord of the air conditioner is damaged, it must be replaced by the manufacturer or a qualified person in order to avoid a hazard.
- The air conditioner must be plugged into an independent circuit if applicable or connect the power cable to the auxiliary circuit breaker.
An all pole disconnection from the power supply must be incorporated in the fixed wiring with a contact opening of >0.118 inch(3 mm).
- Do not extend an electric cord to the air conditioner.
- The air conditioner must be plugged in after you complete the installation.



No Tapping and No Extension Cords

1-3 During operation

- Do not repair the air conditioner at your discretion.
It is recommended to contact a service center directly.
- Never spill any kind of liquid on the air conditioner.
If this happens, turn off the air conditioner and contact an authorized service center.
- Do not insert anything between the airflow blades to prevent damage of the inner fan and consequent injury. Keep children away from the air conditioner.
- Do not place any obstacles in front of the air conditioner.
- Do not spray any kind of liquid into the indoor unit. If this happens, turn off the air conditioner and contact a service center.
- Make sure that the air conditioner is well ventilated at all times:
Do not place a cloth or other materials over it.
- Remove the batteries if you don't use the remote control for a long time. (If applicable)
- Use the remote control within 23 feet (7 meters) from the indoor unit.
(If applicable)



No children Nearby

1-4 Disposing of the unit

- Before throwing out the air conditioner, remove the batteries from the remote control.
- When you dispose of the air conditioner, consult your dealer. If pipes are removed incorrectly, refrigerant may blow out and cause air pollution. When it contacts with your skin, it can cause skin injury.
- The package of the air conditioner should be recycled or disposed of properly for environmental reasons.

1-5 Others

- Never store or load the air conditioner upside down or sideways to prevent the damage to the compressor.
- Young children or infirm persons should be always supervised when they use the air conditioner.
- Max current is measured according to IEC standard for safety.
- Current is measured according to ISO standard for energy efficiency.

2. Product Specifications

2-1 The Feature of Product

- **Built-in Cassette Type**

After installed, the air conditioner can be harmonized with a room interior.

- **High Performance & Energy Saving**

With the advanced BLDC inverter technology, it makes a room cool with highly energy saving and arises the efficiency of air conditioner.

- **Long Piping(Length & Height)**

It can give the benefit to the installers and arises the reliability of the air conditioner.

- **Long Ambient Operation(In Low Temperature)**

It can arise the reliability and the capacity of the air conditioner, especially operated in low temperature.

- **Eco-friendly Product(Lead-Free, RoHS, WEEE)**

2-2 Product Specifications

■ DH105CAV

| Item | | | | Model | DH105CAV | | UH105CAV | |
|------------------------------|----------------------|-------------|---------------------------------|----------------------|---|----------------|--------------|--|
| | | | | | Indoor unit | | Outdoor unit | |
| Type | | | | | DUCT | | | |
| Performance | Cooling(MIN/STD/MAX) | | Btu/h | 9,900/36,000/39,000 | | | | |
| | Heating(MIN/STD/MAX) | | Btu/h | 11,500/38,200/52,000 | | | | |
| | Dehumidifying | | gal/h | 1 | | | | |
| | Air Volume | Cooling | ft ³ /min (H/M/L) | 784/640/510 | | 3880 | | |
| | | Heating | | 910/750/610 | | 3880 | | |
| | Noise | Cooling | dB (H/M/L) | 48 | | 66 | | |
| | | Heating | | 49 | | 66 | | |
| | SEER/HSPF | Cooling | Btu/Wh | 15.2 | | | | |
| | | Heating | | 9.3 | | | | |
| Power | | | ph/V/Hz | 1/208-230V~/60Hz | | | | |
| Power | Power Consumption | Cooling | W | 3,400 | | | | |
| | | Heating | | 3,300 | | | | |
| | Operating Current | Cooling | A | 15.2 | | | | |
| | | Heating | | 14.5 | | | | |
| | Power Factor | Cooling | % | 92 | | | | |
| | | Heating | | 92 | | | | |
| Size | Outer Dimension | WxHxD | mm | 1150x320x480 | | 932X1128X375 | | |
| | | | inch | 45.3x12.6x18.9 | | 36.7X44.4X14.8 | | |
| | Weight(Net) | | | lb | 86 | | 198 | |
| | Compressor | Model | | GST360FUA EK | | | | |
| | | Motor | Type | | TWIN BLDC | | | |
| | | | Rated Output | | - | | | |
| | Oil Type | | | | FREOL α 68ES-T Ze-GLES RB68-EP | | | |
| | Blower | Type | TURBO-FAN | | | Propeller | | |
| | | | AL | | | AL | | |
| Motor | | Type | 389 | | | 165x2 | | |
| | Rated Output | W | | | | | | |
| Piping | Pipe O.D Size | Liquid | mm(inch)xL(ft) | 9.52(3/8")x24.6 | | | | |
| | | Gas | mm(inch)xL(ft) | 15.88(5/8")x24.6 | | | | |
| | Connection Method | | | Flare | | | | |
| | Between | Height | ft | Max.98.4 | | | | |
| | | Pipe Length | ft | Max.246 | | | | |
| Heat Exchanger | | | | | 3ROW 16STEP | | 2ROW 52STEP | |
| Refrigerant Control Unit | | | | | EEV | | | |
| Freezer Oil Capacity | | | gal | 0.29 | | | | |
| Refrigerant to Change(R410A) | | | oz | 98.8(0.43oz/ft) | | | | |
| Protection Device(OLP) | | | | | - | | | |
| Cooling Test Condition | | | | | INDOOR UNIT : DB80.6°F WB66.2°F OUTDOOR UNIT : DB95°F WB75.2°F | | | |
| Heating Test Condition | | | | | INDOOR UNIT : DB68°F WB59°F OUTDOOR UNIT : DB44.6°F WB42.8°F | | | |

DH140CAV




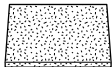


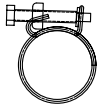

| Item | | | | Model | DH140CAV | | UH140CAV | | |
|------------------------------|----------------------|-------------|---------------------------------|---|----------------------------------|--------------|----------------|--|-------|
| | | | | Indoor unit | | Outdoor unit | | | |
| Type | | | | DUCT | | | | | |
| Performance | Cooling(MIN/STD/MAX) | | Btu/h | 10,000/48,000/52,600 | | | | | |
| | Heating(MIN/STD/MAX) | | Btu/h | 15,400/54,600/61,000 | | | | | |
| | Dehumidifying | | gal/h | 1.35 | | | | | |
| | Air Volume | Cooling | ft ³ /min (H/M/L) | 1,260/1,090/970 | | 3880 | | | |
| | | Heating | | 1,300/1,110/925 | | 3880 | | | |
| | Noise | Cooling | dB (H/M/L) | 49 | | 66 | | | |
| | | Heating | | 50 | | 66 | | | |
| | SEER/HSPF | Cooling | Btu/Wh | 13.6 | | | | | |
| | | Heating | | 9.1 | | | | | |
| Power | | | ph/V/Hz | 1/208-230V~/60Hz | | | | | |
| Power | Power Consumption | Cooling | W | 5,100 | | | | | |
| | | Heating | | 4,750 | | | | | |
| | Operating Current | Cooling | A | 22.0 | | | | | |
| | | Heating | | 20.7 | | | | | |
| | Power Factor | Cooling | % | 92 | | | | | |
| | | Heating | | 92 | | | | | |
| Size | Outer Dimension | | WxHxD | mm | 1200x360x650 | | 932X1128X375 | | |
| | | | | inch | 47.2x14.2x25.6 | | 36.7X44.4X14.8 | | |
| | Weight(Net) | | | lb | 121 | | 207 | | |
| | Compressor | Model | | | G5T450FUAEX | | | | |
| | | Motor | Type | | | TWIN BLDC | | | |
| | | | Rated Output | | | - | | | |
| | Oil Type | | | | FREOLa 68ES-T Ze-GLES RB68-EP | | | | |
| | Blower | Type | TURBO-FAN | | | Propeller | | | |
| | | | Motor | AL | | | AL | | |
| | | | | Rated Output | W | 610 | | | 165x2 |
| Piping | Pipe O.D Size | | Liquid | mm(inch)xL(ft) | 9.52(3/8")x24.6 | | | | |
| | | | Gas | mm(inch)xL(ft) | 19.05(3/4")x24.6 | | | | |
| | Connection Method | | | | Flare | | | | |
| | Between | Height | ft | Max.98.4 | | | | | |
| | | Pipe Length | ft | Max.246 | | | | | |
| Heat Exchanger | | | | 3ROW 16STEP | | 2ROW 52STEP | | | |
| Refrigerant Control Unit | | | | EEV | | | | | |
| Freezer Oil Capacity | | | gal | 0.29 | | | | | |
| Refrigerant to Change(R410A) | | | oz | 98.8(0.43oz/ft) | | | | | |
| Protection Device(OLP) | | | | - | | | | | |
| Cooling Test Condition | | | | INDOOR UNIT : DB80.6°F WB66.2°F OUTDOOR UNIT : DB95°F WB75.2°F | | | | | |
| Heating Test Condition | | | | INDOOR UNIT : DB68°F WB59°F OUTDOOR UNIT : DB44.6°F WB42.8°F | | | | | |

2-3 The Comparative Specifications of Product

| Item | | Development Model | Comparative Model |
|---|--------------|--|--|
| | | UH140CAV | UH140EAV |
| Design | Outdoor Unit |  |  |
| | Indoor Unit |  |  |
| Net Weight | Indoor Unit | 121 lb (55 kg) | 121 lb (55 kg) |
| | Outdoor Unit | 207 lb (94 kg) | 207 lb (94 kg) |
| Outer Dimension (WidthxHeightxDepth) | Indoor Unit | 47.2x14.2x25.6 inch (1200x360x650 mm) | 47.2x14.2x25.6 inch (1200x360x650 mm) |
| | Outdoor Unit | 36.7x44.4x14.8 inch (932x1128x375 mm) | 36.7x44.4x14.8 inch (932x1128x375 mm) |
| Noise | Indoor Unit | 50dB↓ | 50dB↓ |
| | Outdoor Unit | 66dB↓ | 66dB↓ |













2-4 Accessory and Option Specifications

Accessories

| Item | Descriptions | Code-No. | Q'TY | Remark |
|---|--------------------------|-------------|------|--------|
|  | User's Manual | DB98-29517A | 1 | |
|  | Installation Manual | DB98-29515A | 1 | |
|  | Service Manual | DB98-29522A | 1 | |
|  | Insulation | DB62-03439J | 1 | |
| | | DB62-03439H | 1 | |
|  | Insulation Drain In | DB62-03440H | 1 | |
|  | Insulation Install Inlet | DB72-00143E | 1 | |
| | | DB72-00143G | 1 | |
|  | Ass'y Holder Drain Pipe | DB90-02064A | 1 | |
|  | Ass'y Drain Hose Joint | DB94-00758A | 1 | |







Accessories(cont.)

■Receiver & display unit & Wire kit







| Item | Descriptions | Code-No. | Q'TY | Remark |
|---|--------------------------|--------------------------|------|----------------|
|  | Receiver & display unit | DB93-01066A (MRK-A00) | 1 | Concealed type |
|  | STS 2S-2x10 tapped screw | - | 4 | |
|  | 2S-4x12 tapped screw | - | 2 | |
|  | Owner's instructions | DB98-05160A | 1 | |
|  | Installation manual | DB98-05186A | 1 | |
|  | Wire kit | DB39-00223A (MRW-10A) | 1 | |
|  | Receiver & display unit | DB93-01066A (MRK-A00) | 5 | Standard type |
|  | M4x16 tapped screw | - | 7 | |
|  | Cable-tie | - | 2 | |
|  | User's manual | DB98-05160A | 1 | |
|  | Installation manual | DB98-05186A | 1 | |
|  | Wire kit | DB39-00223A (MRW-10A) | 1 | |

Accessories(cont.)

■ Wireless Remote Controller Accessories




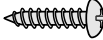





| Item | Descriptions | Code-No. | Q'TY | Remark |
|---|----------------------------|--------------------------|------|--------|
|  | Wireless remote controller | DB93-04858C (MR-BH01) | 1 | |
|  | Battery | DB47-90024A | 2 | |
|  | Remote control holder | DB61-03147A | 1 | |
|  | STS 2S-2x10 tapped screw | 6002-000581 | 2 | |
|  | User's manual | DB98-27999A | 1 | |
|  | Installation manual | DB98-27997A | 1 | |

■ Function Controller Accessories

| Item | Descriptions | Code-No. | Q'TY | Remark |
|---|---------------------|---------------------------|------|--------|
|  | Function controller | DB97-01077A (MCM-A100) | 1 | |
|  | Cable-tie | DB65-10088B | 2 | |
|  | Cable clamp | DB65-10074E | 6 | |
|  | M4x16 tapped screw | 6002-000474 | 7 | |
|  | User's manual | DB98-27317A | 1 | |
|  | Installation manual | DB98-27315A | 1 | |

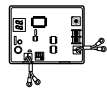






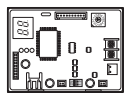
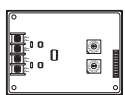

Accessories(cont.)

■ Wired Remote Controller Accessories

| Item | Descriptions | Code-No. | Q'TY | Remark |
|---|---|----------------------------|------|--------|
|  | Wired remote controller | DB93-03934B (MWR-WS00U) | 1 | |
|  | Cable-tie | DB65-10088B | 2 | |
|  | Cable clamp | DB65-10074E | 4 | |
|  | M4x16 tapped screw | 6002-000474 | 5 | |
|  | Indoor unit power drawing cable | DB39-00221A | 1 | |
|  | Communication cable of the wired remote controller | DB39-00933A | 1 | |
|  | Communication and power cable | DB39-90020A | 1 | |
|  | User's manual | DB98-29261A | 1 | |
|  | Installation manual | DB98-29260A | 1 | |



Accessories(cont.)

■ Transmitter Accessories


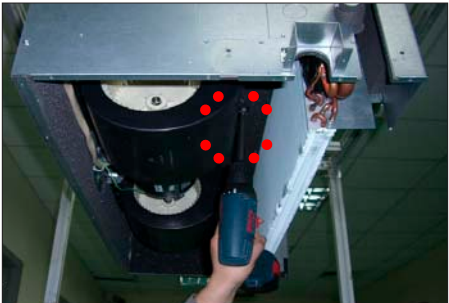
| Item | Descriptions | Code-No. | Q'TY | Remark |
|---|-------------------------|--------------------------|------|--------|
|  | Transmitter | DB97-04416C (MIM-B13) | 1 | |
|  | Communication Cable | DB39-00253B | 1 | |
|  | DC Power Cable (5V) | DB39-00378E | 1 | |
|  | DC Power Cable (12V) | DB39-00378B | 1 | |
|  | 485 Communication Cable | DB39-00714A | 1 | |
|  | Case | DB61-00922B | 1 | |
|  | Cable Tie | DB65-10088B | 3 | |
|  | Transmitter MAIN | DB93-03568A | 1 | |
|  | Transmitter SUB | DB93-03590A | 1 | |
|  | Installation Manual | DB98-27313A | 1 | |

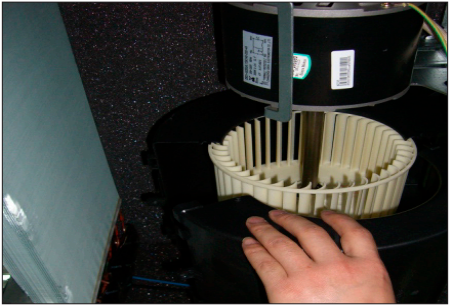
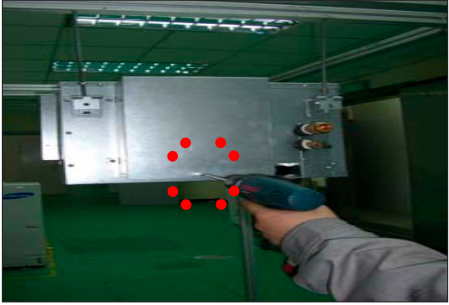
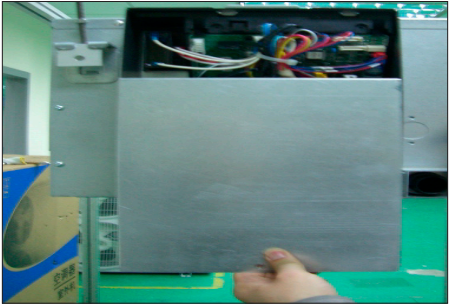
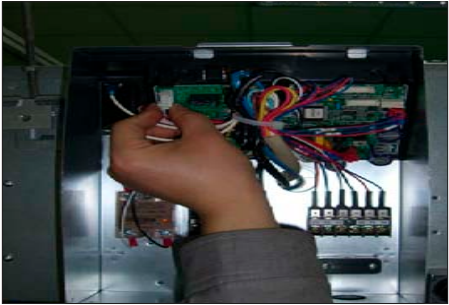
3. Disassembly and Reassembly

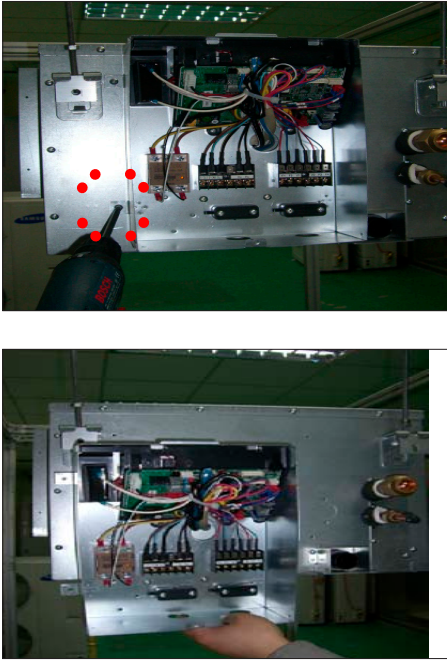
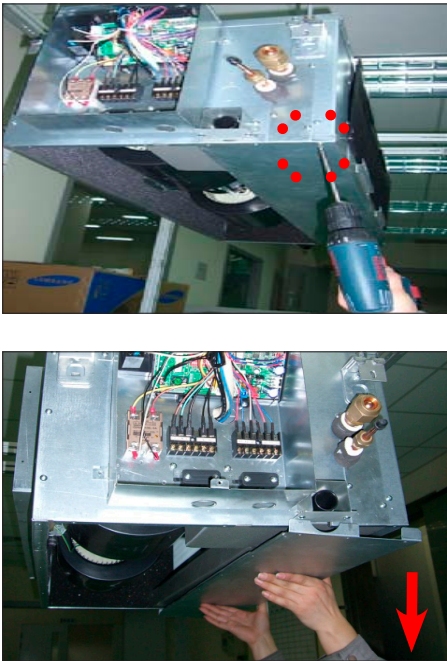
■ Necessary Tools

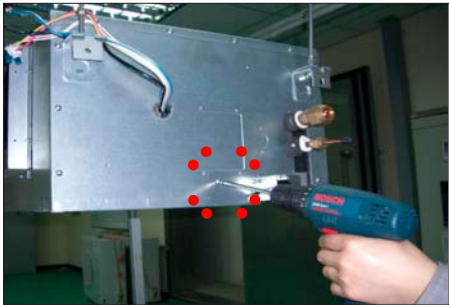
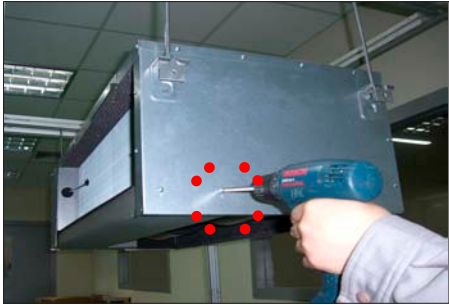
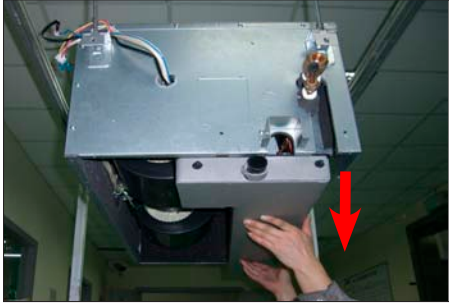

| Item | Remark |
|----------------|---|
| +SCREW DRIVER |  |
| MONKEY SPANNER |  |

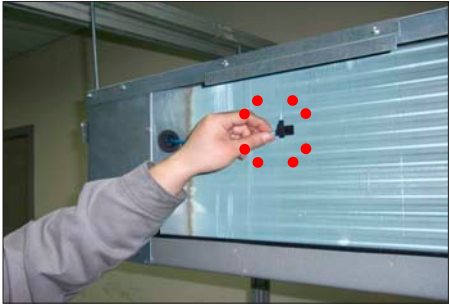
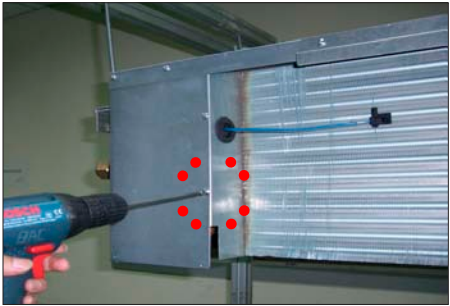
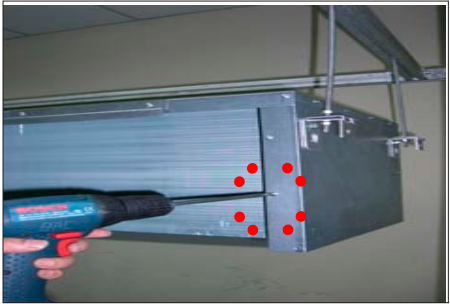
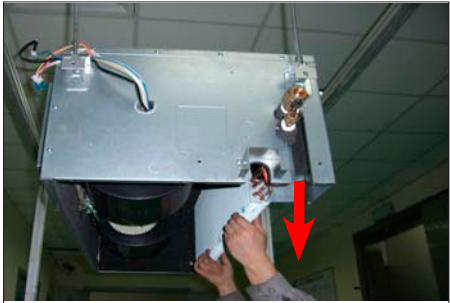
3-1 Indoor Unit

| No | Parts | Procedure | Remark |
|----|----------------|--|--|
| 1 | Blower & Motor | <div>1) After disassembling 16 places indicating screws, detach Ass'y Cabi Bottom Blower.</div> <div>2) Detach from Ass'y Control In the capacitor connection wire between the Motor Fan and housing connector.</div> <div>3) After disassembling 2 places indicating screws, detach the 2 Fan Case.</div> | <div></div> <div></div> <div></div> <div></div> |

| No | Parts | Procedure | Remark |
|----|------------|---|--|
| | | 4) After disassembling 2 places indicating screws, detach Fan Motor and Blower from the set. |  |
| 2 | Control In | <p>1) After disassembling 1 Indicating screw, detach the Cover control.</p> <p>2) Detach the Motor-Fan and Sensor Connector from the PCB.</p> |    |

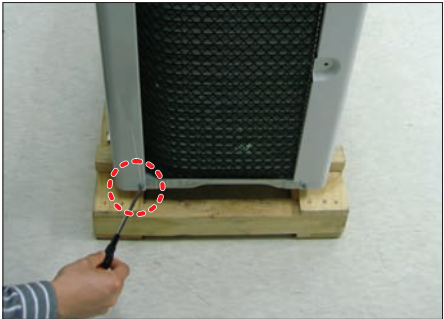
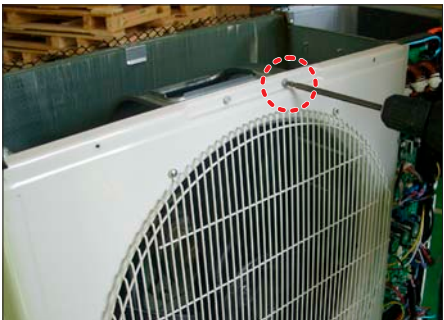
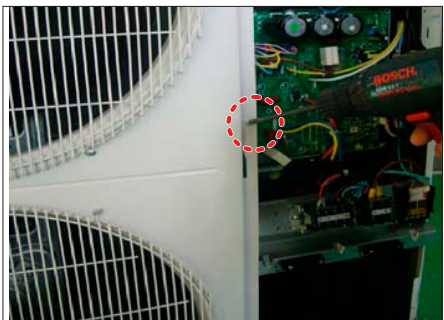
| No | Parts | Procedure | Remark |
|----|-----------|--|---|
| | | 3) Disassemble 4 indicating screws and detach Control In from the set. |  |
| 3 | Drain Pan | <p>Work is possible when Disassembling the Ass'y Cabi Bottom Blower.</p> <p>1) Disassemble 7 indicating screws and detach Ass'y Cabi Bottom Drain.</p> |  |


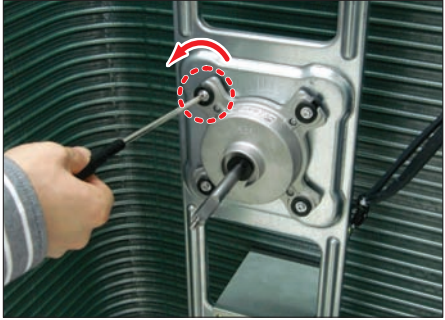

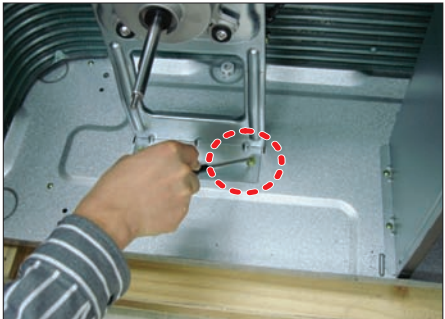
| No | Parts | Procedure | Remark |
|----|-------|--|---|
| | | 2) Disassemble 4 indicating screws and detach the Drain Pan. (2 screws each at left and right side) |    |
| 4 | Evap | Work is possible when Disassembling the Ass'y Drain Pan. 1) Disassemble 5 indicating screws to detach Cover Pipe. |  |


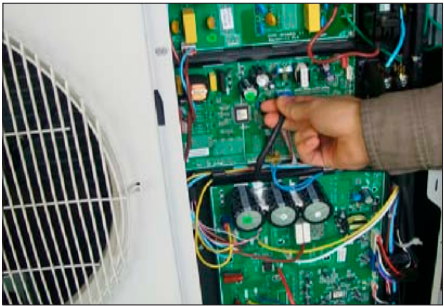
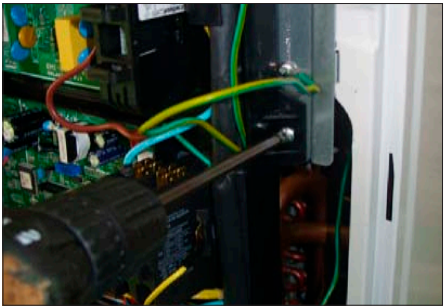

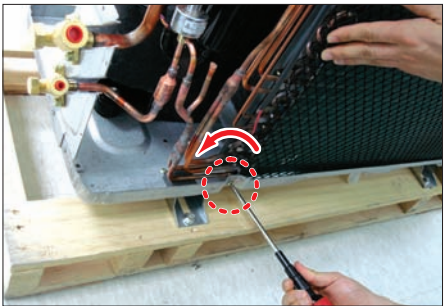
| No | Parts | Procedure | Remark |
|----|-------|---|--|
| | | <p>2) Disassemble Sensor on the Evap.</p> |  |
| | | <p>3) Disassemble 4 indicating screws which are in the near of Hanger Plate to detach the Evap. (2 screws each at left and right side)</p> <p>⚠ It needs 2 peoples.</p> |    |




3-2 Outdoor Unit

| No | Parts | Procedure | Remark |
|----|-------------|---|--|
| 1 | Common Work | <p>1) Loosen 2 fixing screws of the Cabi Front Rh and detach the Cabi Front Rh.</p> <p>2) Loosen each 8 fixing screws and detach the Cabi Top Cover.</p> <p>3) Loosen 2 screws fixed to assemble Control Box with Cabi Back Rh.</p> <p>4) Loosen fixing screws and detach the Cabi Back Rh.</p> |     |

| No | Parts | Procedure | Remark |
|----|-------|---|---|
| | | 5) Loosen 2 screws fixed on the Cabi Back Lf. |  |
| | | 6) Loosen fixing screws of the Cabi Front Lf. |   |

| No | Parts | Procedure | Remark |
|----|-------------|--|--|
| 2 | Fan & Motor | <p>1) Detach the Nut Flange like the picture on the right side.(Turn clockwise because the screw is left-handed.) (Use Monkey Spanner.)</p> <p>2) Detach the Fan Propeller.</p> <p>3) Loosen 4 fixing screws to detach the Motor.(Use Monkey Spanner.)</p> <p>4) Disconnect the wire between Ass'y Control Out and Motor.</p> <p>5) Loosen 2 fixing bolts and detach the Bracket Motor.(Use Monkey Spanner.)</p> |     |

| No | Parts | Procedure | Remark |
|----|-------------------|--|---|
| 3 | Ass'y Control Out | <ol style="list-style-type: none">1) Detach several connectors from the Ass'y Control Out.2) Detach several connectors from the PCB of Ass'y Control Out.3) Pull up the Ass'y Control Out. |    |
| 4 | Heat Exchanger | <ol style="list-style-type: none">1) Release the refrigerant at first.2) Loosen fixing screw on both sides.3) Disassemble the pipes in both inlet and outlet with welding torch.4) Detach the Heat Exchanger. |   |

| No | Parts | Procedure | Remark |
|----|------------|---|--|
| 5 | Compressor | <p>1) Loosen the fixing nut and detach the Compressor Lead Wire. (Use Monkey Spanner.)</p> <p>2) Disassemble the Felt Comp Sound.</p> <p>3) Loosen the 3 bolts at the bottom of Compressor like the picture on the right side.(Use Monkey Spanner.)</p> |    |






4. Troubleshooting

4-1 Indoor Display Error and Check Method

■ Error detection and reoperation

- ◆ If error occurs during the operation, badness is indicated by LED flickering and all operation is stopped except LED.
- ◆ When reoperating by remote control and switch determine the error mode after normal operation.


■ Indoor unit LED lamp display at error detecting

| Error type | LED lamp display | | | | | Remarks |
|--|---|---|---|---|---|---------|
| | Operation | Defrost | Timer | Air flow | Filter | |
| |  |  |  |  |  | |
| Power reset | ● | X | X | X | X | |
| Error of temperature sensor in the indoor unit(Open/Short) | X | X | ● | X | X | |
| Error of heat exchanger sensor in the indoor unit | ● | X | ● | X | X | |
| Error of the outdoor temperature sensor Error of the condensor temperature sensor Error of the discharge temperature sensor | ● | X | X | ● | X | |
| 1. No communication for 2 minutes between indoor units (Communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minutes error 4. When sending the communication error from the outdoor unit, the mismatching of the communication numbers and installed numbers after completion of tracking (Communication error for more than 2 minutes) | X | X | ● | ● | X | |
| 1. Error of electronic expansion valve close 2. Error of electronic expansion valve open 3. 2'nd detection of high temperature cond 4. 2'nd detection of high temperature discharge 5. Error of reverse phase 6. Compressor down due to 6'th detection of freezing | X | X | ● | ● | ● | |
| Detection of the float switch | X | X | X | ● | ● | |
| Error of setting option switches for optional accessories | X | X | ● | X | ● | |
| EEPROM option error | ● | ● | ● | ● | ● | |

● : On, ◐ : Flickering, X: OFF

※ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

■ Wired Remocon Error Display

- If an error occurs,  is displayed on the wired remote controller.

If you would like to see an error code, press the Test button.

| Display | Explanation | Remark |
|------------|---|---|
| 101 | Indoor unit Communication Error | Communication Error |
| 102 | Indoor/Outdoor unit Communication Time Out Error 60 Packet Over data | |
| 201 | Indoor unit is not connected | |
| 203 | Communication Error between Outdoor Main and Inverter Micom (Occurred after 1 minute detection in Main and Inverter) | |
| 121 | Indoor Temp. Sensor(Open/Short Error) | Indoor Sensor Error |
| 122 | Indoor Unit Eva in Sensor(Open/Short Error) | |
| 128 | Indoor Unit Eva in Sensor Separation | |
| 221 | Outdoor Temp. Sensor Error(Open/Short Error) | Outdoor Sensor Error |
| 237 | COND Temp. Sensor Error(Open/Short Error) | |
| 251 | Inverter Compressor Discharge Temp. sensor Error(Open/Short Error) | |
| 425 | Power cable miss connection error | |
| 153 | Indoor Float Switch 2nd Detection | Self Diagnosys Error |
| 460 | Outdoor unit - indoor unit communication wire miss connection (Connected to Power terminal) | |
| 554 | Outdoor unit refrigerant Full leakage(Gas leak) | |
| 458 | Outdoor Fan 1 Error | |
| 405 | Outdoor Fan 2 Error | |
| 416 | Discharge over temperature | Outdoor Unit Protetion Control Error |
| 461 | [Inverter] Compressor starting error | |
| 462 | Primary Current Over Trip error | |
| 464 | [Inverter]IPM Over Current(O.C) | |
| 467 | [Inverter] Compressor Rotation error | |
| 468 | [Inverter] Current Sensor error | |
| 469 | [Inverter] DC LINK Sensor error | |
| 401 | [Inverter] EEPROM Read/Write Error | |

■ Wired Remocon Error Display(Cont.)

| Display | Explanation | Remark |
|---------|---|---|
| 404 | [Inverter] Heatsink temperature over Error | Outdoor Unit Protetion Control Error |
| 556 | Outdoor unit Capacity Setup option error | |
| 601 | Communication error between Indoor unit and wired remote control | Wired remote control error |
| 602 | Communication error between Master and Slave wired remote control | |
| 606 | COM1/COM2 Cross-installed error | |
| 8EA | Error of setting option for wired remote control COM2 | |

4-2 Outdoor LED Error Display and Check Method


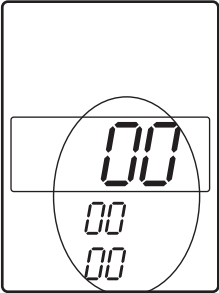

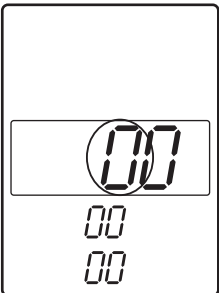
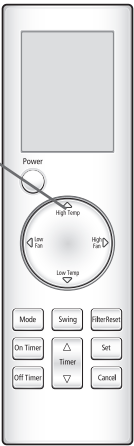
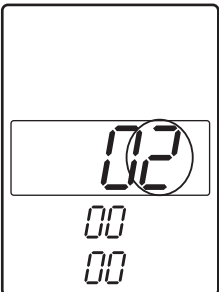
| No. | LED Display | | | Explanation | Error Code |
|-----|-------------|-------|-----|---|---------------|
| | Yellow | Green | Red | | |
| 1 | ○ | ○ | ○ | Power off/VDD NG | - |
| 2 | ○ | ○ | ◎ | IPM Over Current(O.C) | 464 |
| 3 | ○ | ○ | ● | Abnormal Serial communication/ Power Cable Miss Connection | 203 |
| | ○ | ● | ● | | |
| 4 | ○ | ◎ | ○ | Compressor Starting error | 461 |
| 5 | ○ | ◎ | ● | Normal Operation | - |
| 6 | ○ | ● | ○ | Compressor Lock error | 473 |
| 7 | ○ | ● | ◎ | DC-Link voltage under/over error | 466 |
| 8 | ◎ | ○ | ◎ | Outdoor temperature sensor error | 221 |
| 9 | ◎ | ○ | ● | Discharge over temperature | 486 |
| 10 | ◎ | ◎ | ○ | Discharge temperature sensor error | 251 |
| 11 | ◎ | ◎ | ● | Current sensor error | 468 |
| 12 | ◎ | ● | ○ | Compressor Limit error | 465 |
| 13 | ◎ | ● | ◎ | Coil temperature sensor error | 237 |
| 14 | ◎ | ● | ● | 1min. Time out Communication | 202 |
| 15 | ● | ○ | ○ | Fan error | 458 (FAN1) |
| | | | | | 475 (FAN2) |
| 16 | ● | ○ | ◎ | OTP error | 477 |
| 17 | ● | ○ | ● | Compressor rotation error | 467 |
| 18 | ● | ◎ | ○ | Operation condition secession | 440 (Heating) |
| | | | | | 441 (Cooling) |
| 19 | ● | ◎ | ◎ | DC-Link voltage sensor error | 469 |
| 20 | ● | ◎ | ● | I_Trip error | 462 |
| 21 | ● | ● | ○ | GAS Leak error | 554 |
| 22 | ● | ● | ◎ | Power Cable miss connection | 425 |
| 23 | ● | ● | ● | Power ON reset(1sec) | - |
| 24 | ◎ | ○ | ○ | Capacity miss match | 556 |
| 25 | ○ | ◎ | ◎ | Test Operation at Cooling Mode | - |
| 26 | ◎ | ◎ | ◎ | Test Operation at Heating Mode | - |

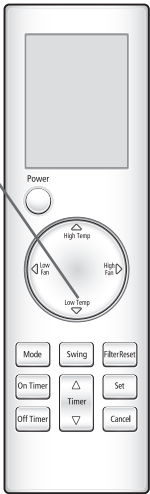
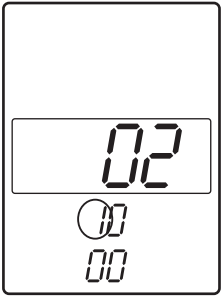
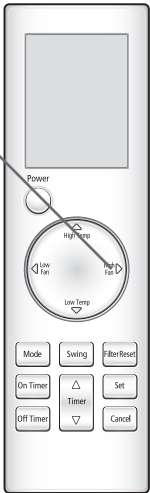
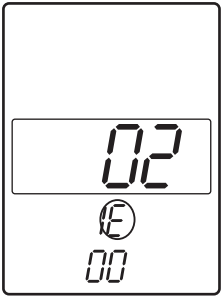

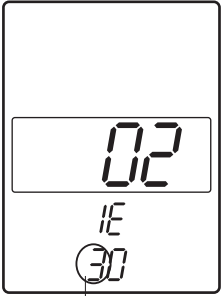
● : LED ON, ○ : LED OFF, ◎ : LED BLINK

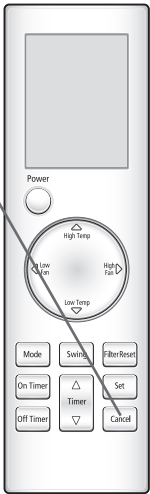
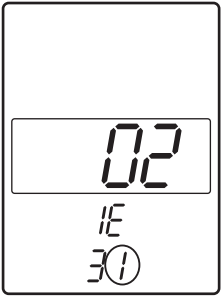

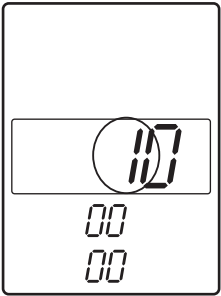
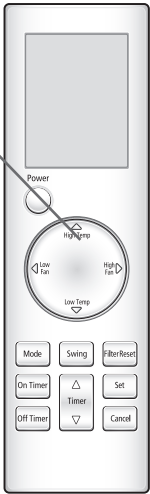
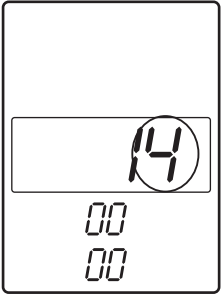
4-3 Setting Option Setup Method

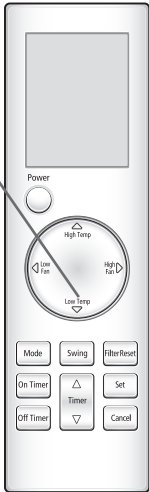
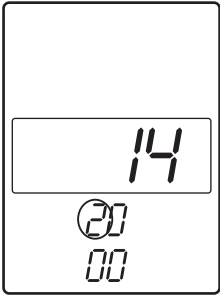
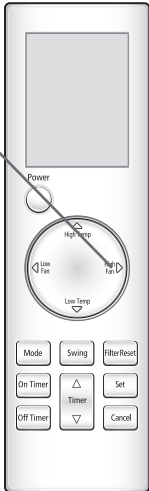
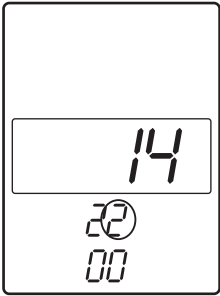

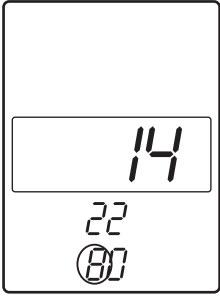
Be sure to input the option code suitable for the indoor unit by use of wireless remote controller after replacing the PCB of indoor unit. Follow to do the following 27 steps sequentially.

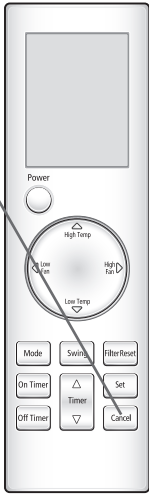
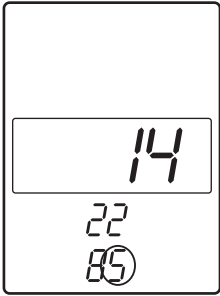

Example : 021E31-142285-2A3114-39421F


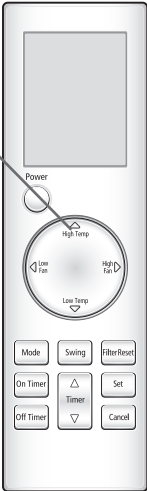
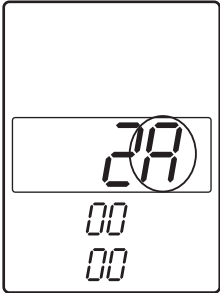

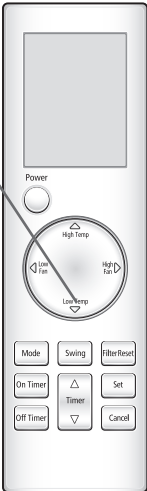
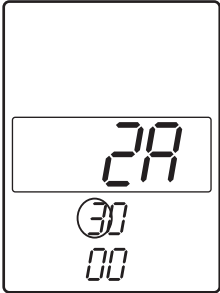

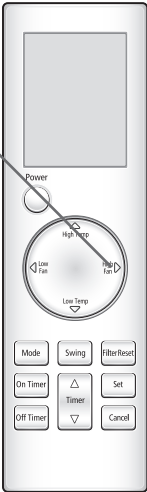
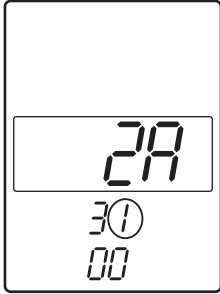
| Operation method | Applicable button | Indicating state |
|--|---|---|
| <p>※ Step 1</p> <p><u>Method)</u></p> <p>① Remove the battery of remote controller.</p> <p>② Push the Off Timer and Cancel button simultaneously.</p> <p>③Insert the battery.</p> <p><u>Result)</u></p> <p>When the display of remote controller is indicated as shown in the right, then go to the step 2.</p> |  |  |
| <p>※ Step 2</p> <p><u>Method)</u></p> <p>If the first digit of remote controller shows "0", go to the step 3.</p> <p>• If it shows 1, press the Mode button one time to change it into 0 and then go to step 3.</p> |  |  |
| <p>※ Step 3</p> <p><u>Method)</u></p> <p>Input the second digit of option code by pressing the High Temp button.</p> <p>example) 021E311422852A311439421F</p> <p><u>Result)</u></p> <p>If 2 is displayed, go to the step 4 (whenever pressing the button, 1~9, A,B,C,D,E,F are lit in order.)</p> |  |  |



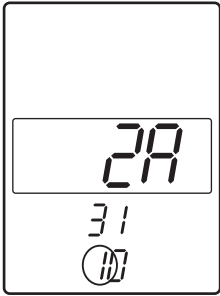
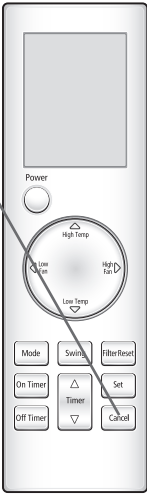
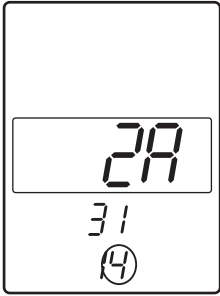

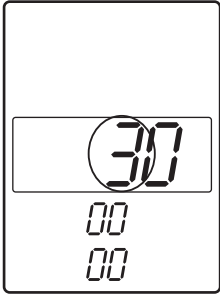
| Operation method | Applicable button | Indicating state |
|---|---|---|
| <p>※Step 4</p> <p><u>Method)</u> Input the third digit of option code by pressing the Low Temp button. example) 021E311422852A311439421F</p> <p><u>Result)</u> If 1 is displayed, go to the step 5.</p> |  |  |
| <p>※Step 5</p> <p><u>Method)</u> Input the fourth digit of option code by pressing the High Fan button. example) 021E311422852A311439421F</p> <p><u>Result)</u> If E displays, go to step 6.</p> |  |  |
| <p>※Step 6</p> <p><u>Method)</u> Input the fifth digit of option code by pressing the On Timer button. example) 021E311422852A311439421F</p> <p><u>Result)</u> If 3 displays, go to step 7.</p> |  |  <p>SEG5</p> |

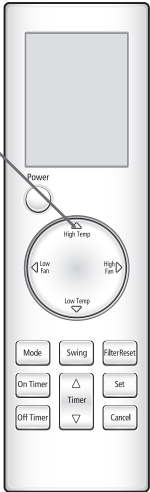
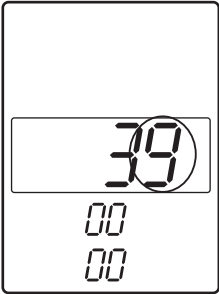
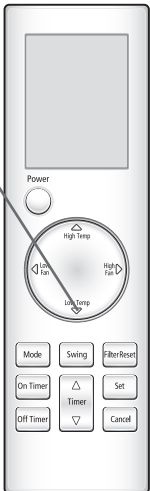
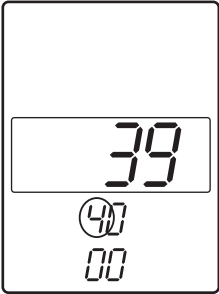
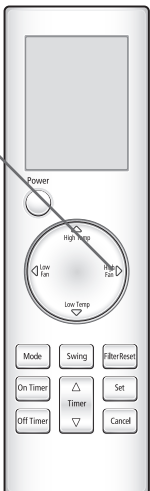
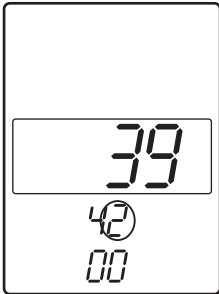
| Operation method | Applicable button | Indicating state |
|--|---|---|
| <p>※ Step 7</p> <p><u>Method)</u></p> <p>Input the sixth digit by pressing the Cancel button. _____</p> <p>example) 021E3<u>1</u>1422852A311439421F</p> <p><u>Result)</u></p> <p>If 1 displays, go to step 8.</p> |  |  |
| <p>※ Step 8</p> <p><u>Method)</u></p> <p>After completion up to step 7, pressing Mode button. _____</p> <p>① 1~7 steps are saved internally.</p> <p>② If the first number is 1 at the time, it is correct. So go to step 9.</p> <p>• If wanting to see the screen of 2~7 steps, press the mode button repeatedly to make the first digit 0.</p> |  |  |
| <p>※ Step 9</p> <p><u>Method)</u></p> <p>Input the eighth digit by pressing the High Temp button. _____</p> <p>example) 021E311<u>4</u>22852A311439421F</p> <p><u>Result)</u></p> <p>If 4 displays, go to step 10.</p> |  |  |


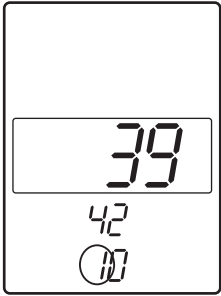
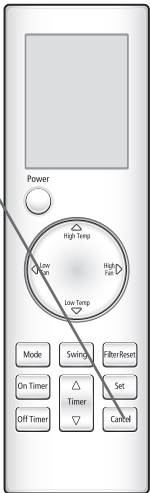
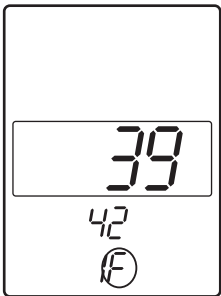
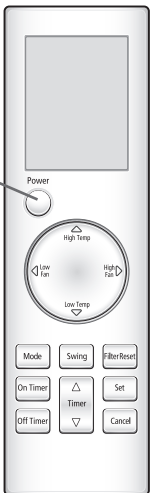
| Operation method | Applicable button | Indicating state |
|---|---|---|
| <p>*Step 10 <u>Method)</u> Input the ninth digit by pressing the Low Temp button. example) 021E311422852A311439421F</p> <p><u>Result)</u> If 2 displays, go to step 11.</p> |  |  |
| <p>*Step 11 <u>Method)</u> Input the tenth digit by pressing the High Fan button. example) 021E311422852A311439421F</p> <p><u>Result)</u> If 2 displays, go to step 12.</p> |  |  |
| <p>*Step 12 <u>Method)</u> Input the 11st digit by pressing the On Timer button. example) 021E311422852A311439421F</p> <p><u>Result)</u> If 8 displays, go to step 13.</p> |  |  |

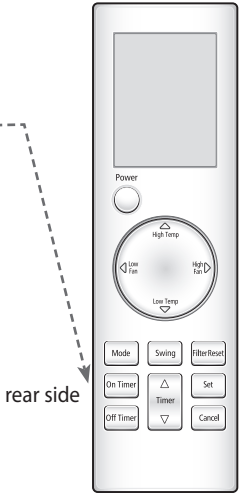
| Operation method | Applicable button | Indicating state |
|---|--|--|
| <p>※ Step 13</p> <p><u>Method</u></p> <p>Input the 12th digit by pressing the Cancel button. _____</p> <p>example) 021E311422852A311439421F</p> <p><u>Result</u></p> <p>If 5 displays, go to step 14.</p> |  |  |
| <p>※ Step 14</p> <p><u>Method</u></p> <p>After completion up to step 13, pressing Mode button. _____</p> <p>① Previous steps are saved internally.</p> <p>② If the first number is 2 at the time, it is correct. So go to step 15.</p> <p>• If wanting to see previous screen, press the mode button repeatedly to make the first digit to with digit.</p> |  | <p>■ Error</p> <p>① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB.</p> <p>② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tirring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~14.</p> |

| Operation method | Applicable button | Indicating state |
|---|---|---|
| <p>※ Step 15</p> <p><u>Method)</u></p> <p>Input the 14th digit by pressing the High Temp button. </p> <p>example) 021E311422852A311439421F</p> <p><u>Result)</u></p> <p>If A displays, go to step 16.</p> |  |  |
| <p>※ Step 16</p> <p><u>Method)</u></p> <p>Input the 15th digit by pressing the Low Temp button. </p> <p>example) 021E311422852A311439421F</p> <p><u>Result)</u></p> <p>If 3 displays, go to step 17.</p> |  |  |
| <p>※ Step 17</p> <p><u>Method)</u></p> <p>Input the 16th digit by pressing the High Fan button. </p> <p>example) 021E311422852A311439421F</p> <p><u>Result)</u></p> <p>If 1 displays, go to step 18.</p> |  |  |

| Operation method | Applicable button | Indicating state |
|---|---|---|
| <p>✳ Step 18</p> <p><u>Method)</u></p> <p>Input the 17th digit by pressing the On Timer button. </p> <p>example) 021E311422852A311439421F</p> <p><u>Result)</u></p> <p>If 1 displays, go to step 19.</p> |  |  |
| <p>❖ Step 19</p> <p><u>Method)</u></p> <p>Input the 18th digit by pressing the Cancel button. </p> <p>example) 021E311422852A311439421F</p> <p><u>Result)</u></p> <p>If 4 displays, go to step 20.</p> |  |  |
| <p>✳ Step 20</p> <p><u>Method)</u></p> <p>After completion up to step 20, pressing Mode button.</p> <p>① Previous steps are saved internally.</p> <p>② If the first number is 3 of the time, it is correct. so go to step 22.</p> <ul style="list-style-type: none"> • If wanting to see previous screen, press the mode button repeatedly to make the first digit to with digit. |  |  |

| Operation method | Applicable button | Indicating state |
|--|---|---|
| <p>※ Step 21</p> <p><u>Method)</u> Input the 20th digit by pressing the High Temp button. High example) 021E311422852A311439<u>4</u>21F</p> <p><u>Result)</u> If 9 displays, go to step 22.</p> |  |  |
| <p>※ Step 22</p> <p><u>Method)</u> Input the 21th digit by pressing the Low Temp button. Low Temp example) 021E311422852A311439<u>4</u>21F</p> <p><u>Result)</u> If 4 displays, go to step 23.</p> |  |  |
| <p>❖ Step 23</p> <p><u>Method)</u> Input the 22th digit by pressing the High Fan button. High Fan example) 021E311422852A3114394<u>2</u>1F</p> <p><u>Result)</u> If 2 displays, go to step 24.</p> |  |  |

| Operation method | Applicable button | Indicating state |
|--|---|--|
| <p>※ Step 24</p> <p><u>Method)</u> Input the 23th digit by pressing the On Timer button. _____ example) 021E311422852A311439421F</p> <p><u>Result)</u> If 1 displays, go to step 25.</p> |  |  |
| <p>※ Step 25</p> <p><u>Method)</u> Input the 24th digit by pressing the Cancel button. _____ example) 021E311422852A311439421F</p> <p><u>Result)</u> If F displays, go to step 26.</p> |  |  |
| <p>※ Step 26</p> <p><u>Method)</u> Turn the remote controller toward the indoor unit and press the Power button, and if the "Ting" or "Tiring" sounds, the input of option is completed.</p> <ul style="list-style-type: none"> If error displays, solve the problem with reference to the right side. |  | <p>■ Error</p> <p>① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB.</p> <p>② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tiring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input. (Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~26.</p> |


| Operation method | Applicable button | Indicating state |
|--|---|---|
| <p>※ Step 27</p> <p><u>Method</u></p> <p>If the steps 1 to 26 are completed, remove the battery and insert it again to return to the original display of remote controller. (Operation mode/SET TEMP. /fan speed displays.)</p> |  | <p>■ Error</p> <p>① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB.</p> <p>② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tirring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~26.</p> |

■ OPTION ITEMS

| Static Pressure | DH140CAV | DH105CAV |
|-----------------|-----------------------------|-----------------------------|
| | Option Code | Option Code |
| 12mmAq | 016774-13C2FF-200001-300000 | 015774-11C2DD-200001-300000 |
| 10mmAq | 016774-13C2CC-200001-300000 | 015774-11C28A-200001-300000 |
| 8mmAq | 016774-13C2AA-200001-300000 | 015774-11C248-200001-300000 |
| 6mmAq | 016774-13C286-200001-300000 | 015774-11C224-200001-300000 |
| 4mmAq | 016774-13C264-200001-300000 | 015774-11C0F1-200001-300000 |
| 2mmAq | 016774-13C240-200001-300000 | 015774-11C0E0-200001-300000 |
| 0mmAq | 016773-13C32E-200001-300000 | 015773-11C1CE-200001-300000 |

4-4 Items to be checked first

1. The input voltage should be rating voltage $\pm 10\%$ range.
The air conditioner may not operate properly if the voltage is out of this range.
2. Is the link cable linking the indoor unit and the outdoor unit linked properly?
The indoor unit and the outdoor unit shall be linked by 4 cables.
Check the terminals if the indoor unit and outdoor unit are properly linked by the same number of cables.
Otherwise the air conditioner may not operate properly.
3. When a problem occurs due to the contents illustrated in the table below it is a symptom not related to the malfunction of the air conditioner.

| No | Operation of air conditioner | Explanation |
|----|--|---|
| 1 | In a COOL operation mode, the compressor does not operate at a room temperature higher than the setting temperature that the INDOOR FAN should operate. [In case of heat pump model] In a HEAT operation mode, the compressor does not operate at a room temperature lower than the setting temperature that indoor fan should operate. | In happens after a delay of 3 minutes when the compressor is reoperated. The same phenomenon occurs when a power is on. As a phenomenon that the compressor is reoperated after a delay of 3 minutes, the indoor fan is adjusted automatically with reference to a temperature of the air blew. |
| 2 | Compressor stops operation intermittently in DRY() mode. | Compressor operation is controlled automatically in DRY mode depending on the room temperature and humidity. |
| 3 | [In case of heat pump model] Compressor of the outdoor unit is operating although it is turned off in a HEAT mode. | When the unit is turned off while de-ice is activated, the compressor continues operation for up to 12 minutes(maximum) until the deice is completed. |
| 4 | [In case of heat pump model] The compressor and indoor fan stop intermittently in HEAT mode. | The compressor and indoor fan stop intermittently if room temperature exceeds a setting temperature in order to protect the compressor from overheated air in a HEAT mode. |
| 5 | [In case of heat pump model] Indoor fan and outdoor fan stop operation intermittently in a HEAT mode. | The compressor operates in a reverse cycle to remove exterior ice in a HEAT mode, and indoor fan and outdoor fan do not operate intermittently for within 20% of the total heater operation |

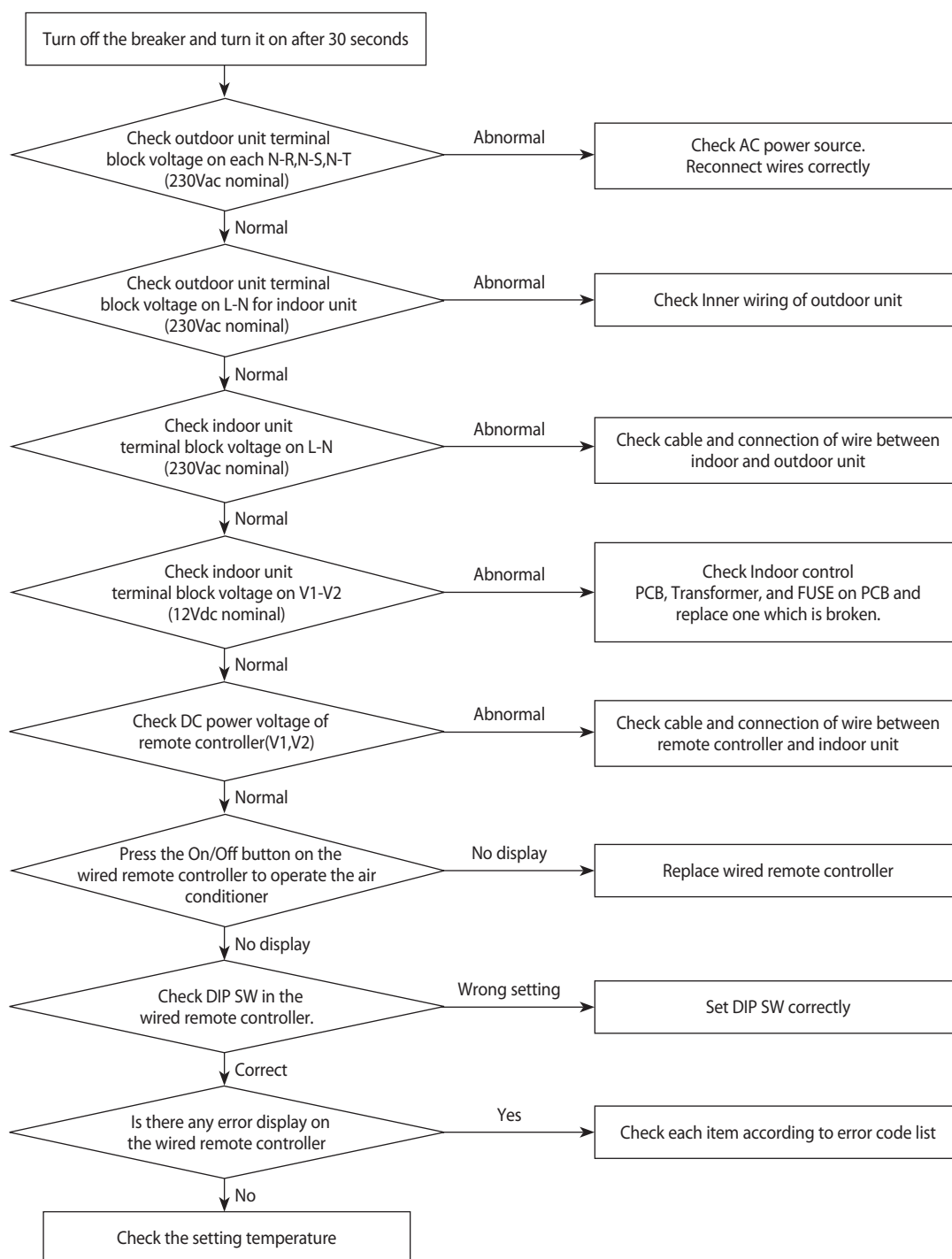
4-5 Fault Diagnosis by Symptom

4-5-1 No Power(completely dead) - Initial diagnosis

1. Checklist:

- 1) Is Power source voltage normal?
- 2) Is AC power linked correctly?(miss-wiring, wire detaching etc.)
- 3) Is any LED on the MAIN PCB of Outdoor unit lit?
- 4) Is terminal voltage for indoor unit normal?(230Vac nominal)
- 5) Is Wired remote controller installed correctly?

2. Troubleshooting procedure

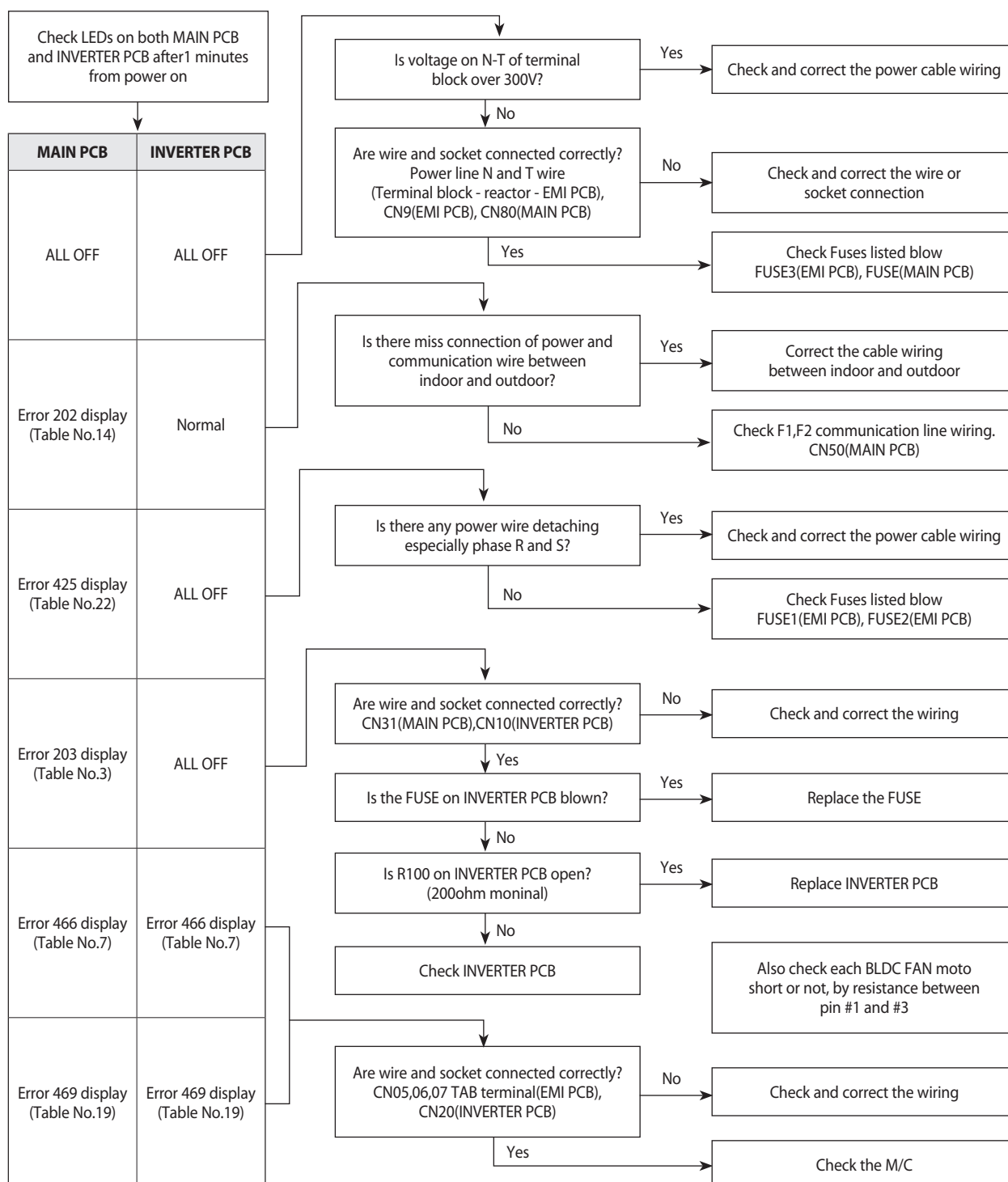


4-5-2 The Outdoor unit Power Supply error

1. Checklist:

- 1) Are the input power voltage and power connection correct?
- 2) Is there any Fuse Short of the indoor or outdoor unit?
- 3) Is any LED lit on both MAIN PCB and INVERTER PCB?
- 4) Are Reactor wires of the outdoor unit connected correctly?

2. Troubleshooting procedure

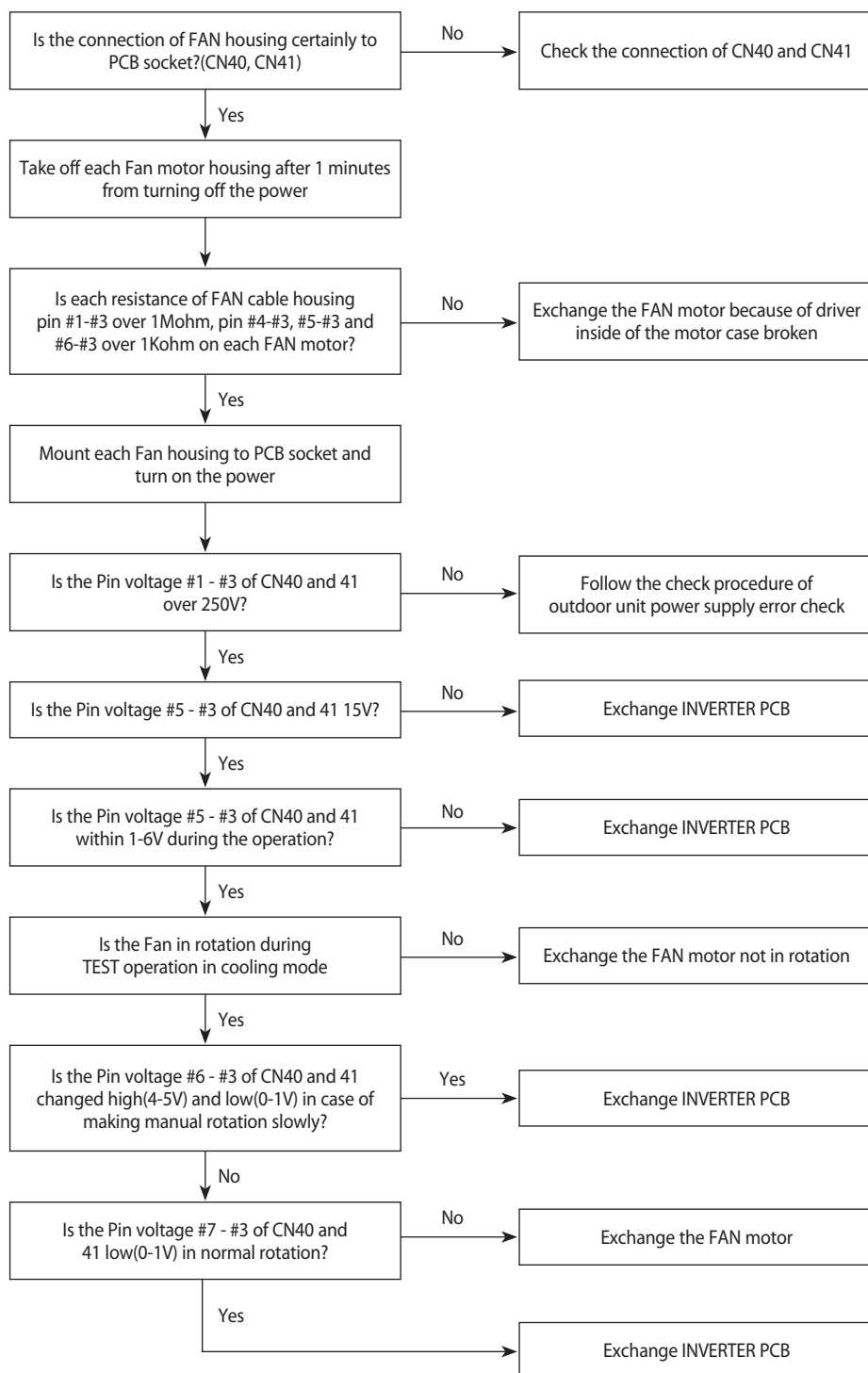


4-5-3 The Outdoor unit Fan error

1. Checklist:

- 1) Are the input power voltage and power connection correct?
- 2) Is the motor wire connected to the outdoor PCB correctly?
- 3) Is there no obstacle at the surrounding of motor and propeller?
- 4) Does the driver in the motor case broken?

2. Troubleshooting procedure



TEST operation #
press K900 button on the MAIN PCB after power on.

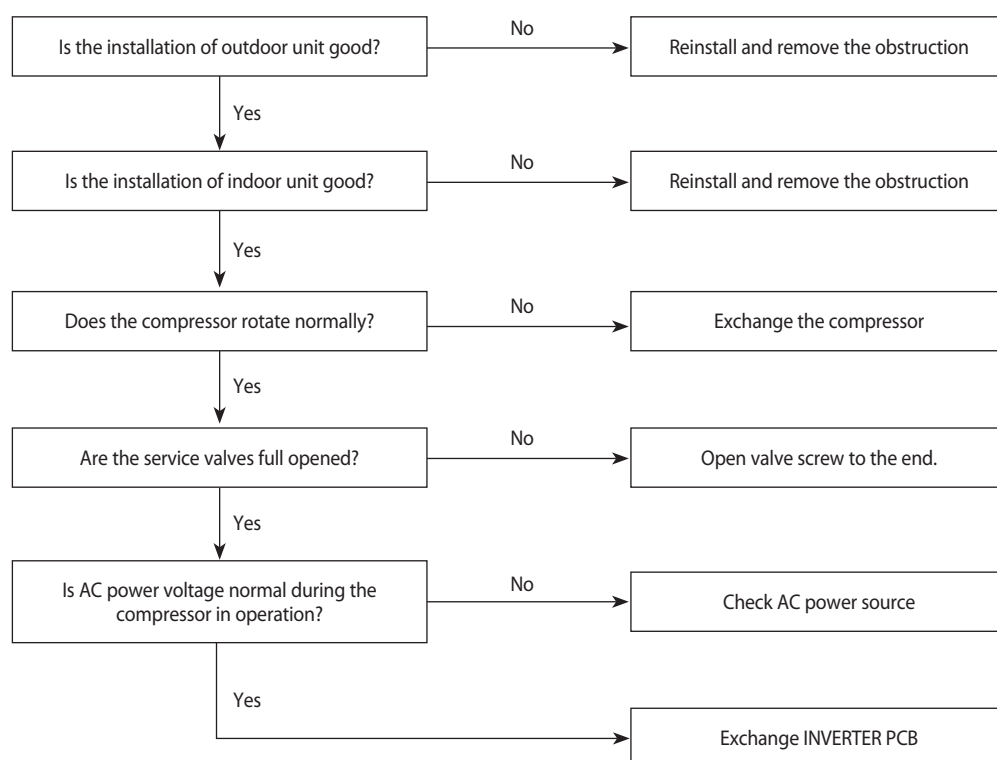
- once : cooling mode
- twice in a second : heating mode

4-5-4 Total current trip error

1. Checklist :

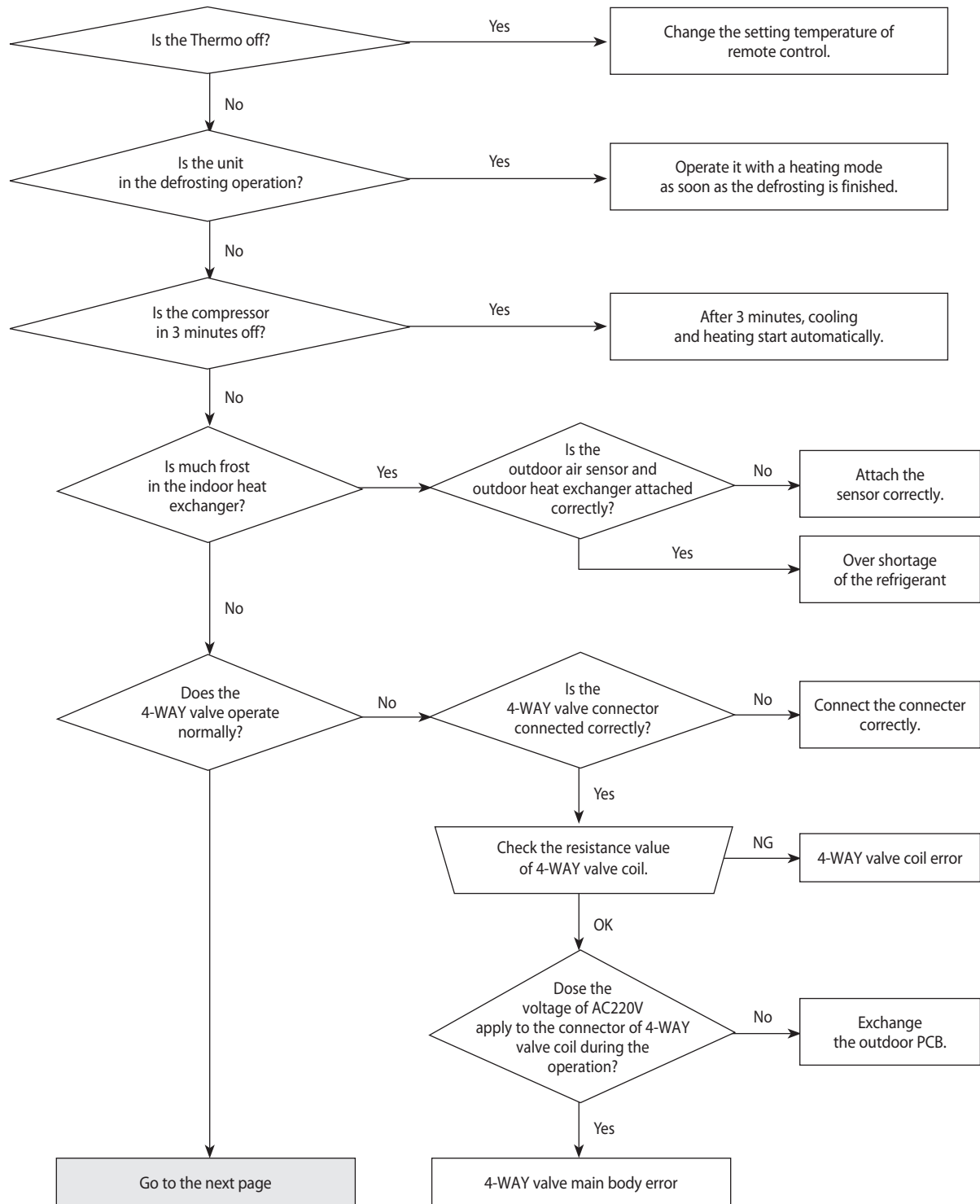
- 1) Is the input power voltage proper?
- 2) Is the refrigerant charged properly?
- 3) Does the compressor rotate normally?(Reverse rotation, Locking etc.)
- 4) Does the outdoor fan operate normally?(Fan propeller loss, Motor error ect.)
- 5) Is the installation condition of outdoor unit good?(Piping, Space etc.)
- 6) Is there no ventilation obstruction at the surrounding of outdoor unit?(Outdoor unit cover, Fan front obstruction etc.)
- 7) Is there no ventilation obstruction at the surrounding of indoor unit?(Overload condition in heating mode)

2. Troubleshooting procedure

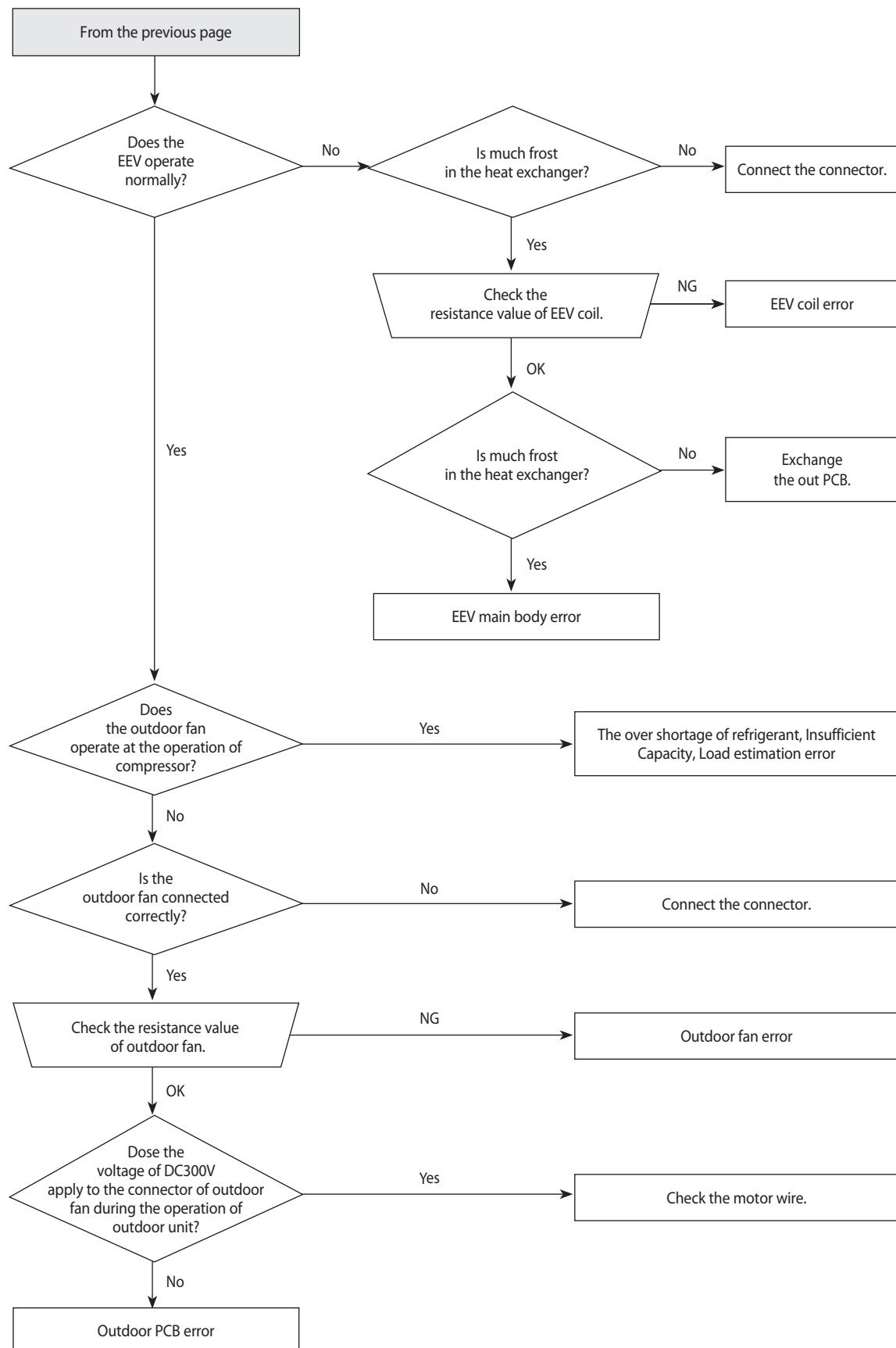


4-5-5 In case of heating at the cooling mode or cooling at the heating mode

1. Troubleshooting procedure

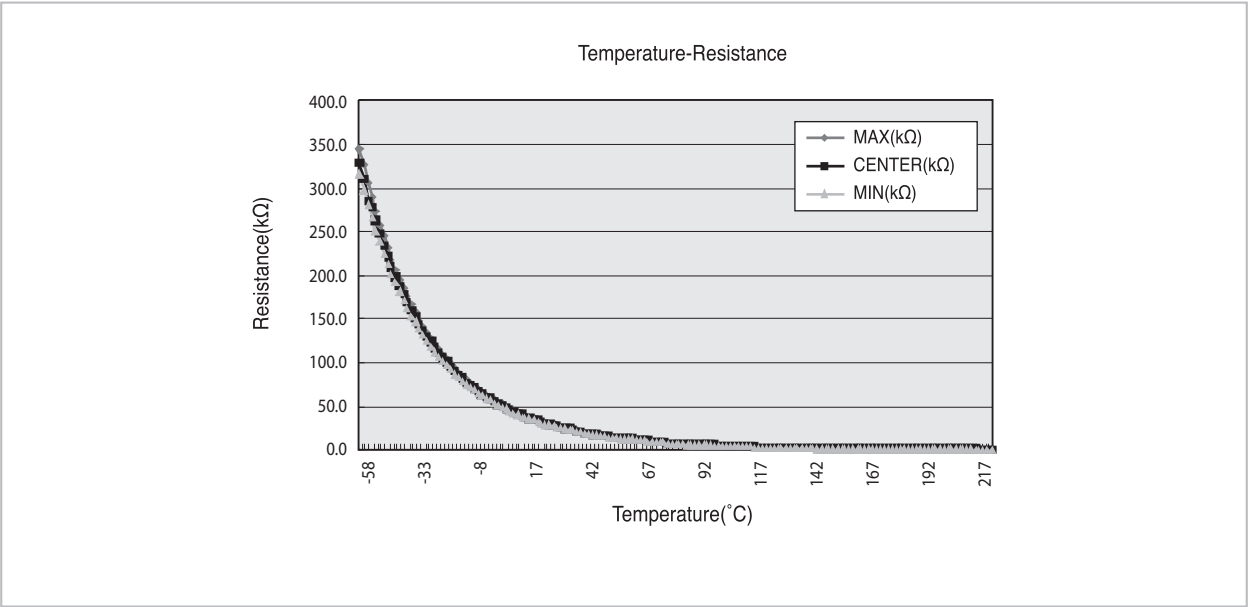
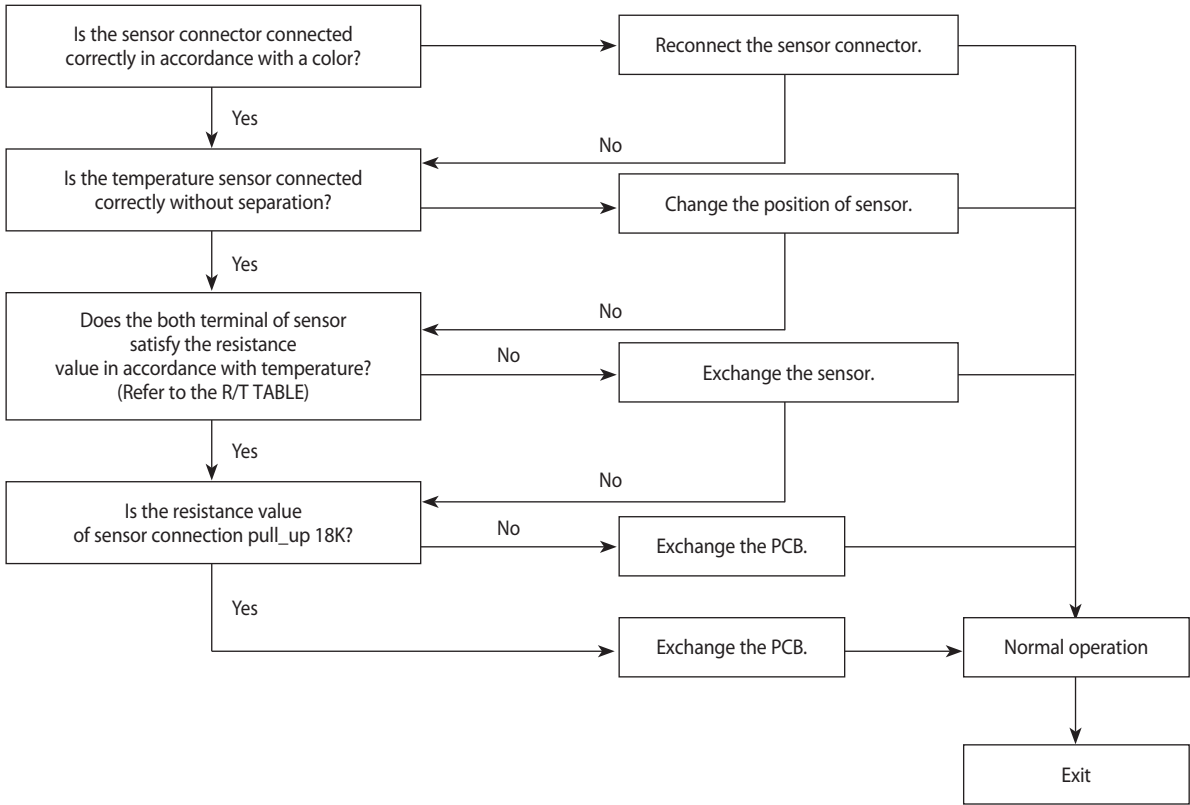


In case of heating at the cooling mode or cooling at the heating mode(cont.)



4-5-6 Outdoor temperature sensor error

- 1. Checklist :
 - 1) Is the sensor connector connected correctly?
 - 2) Is the sensor placed correctly?
 - 3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?
 - 4) Is the resistance value of sensor connection pull_up correct?
- 2. Troubleshooting procedure

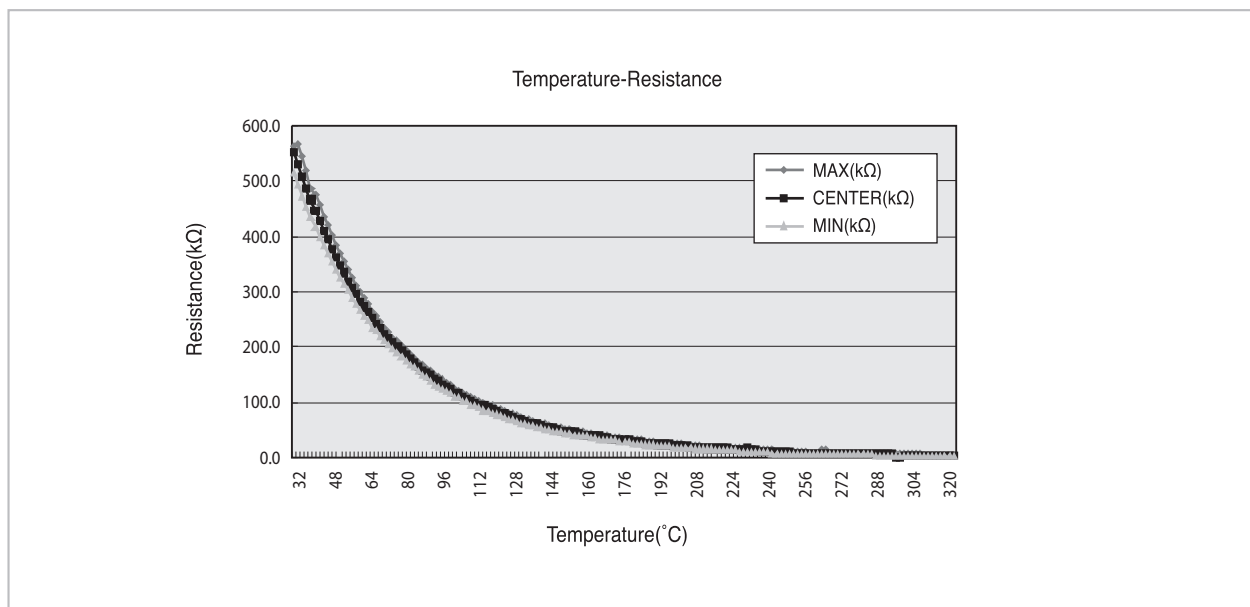
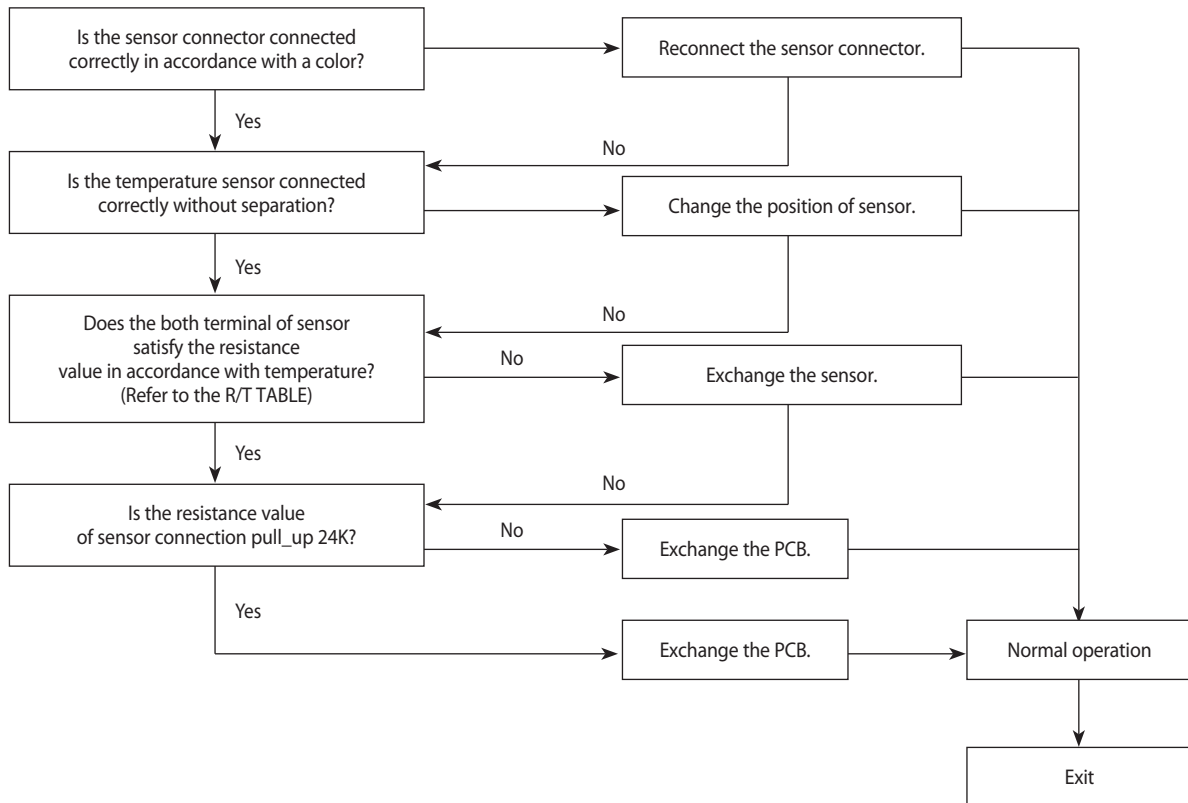


4-5-7 Discharge temperature sensor error

1. Checklist :

- 1) Is the sensor connector connected correctly?
- 2) Is the sensor placed correctly?
- 3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?
- 4) Is the resistance value of sensor connection pull_up correct?

2. Troubleshooting procedure

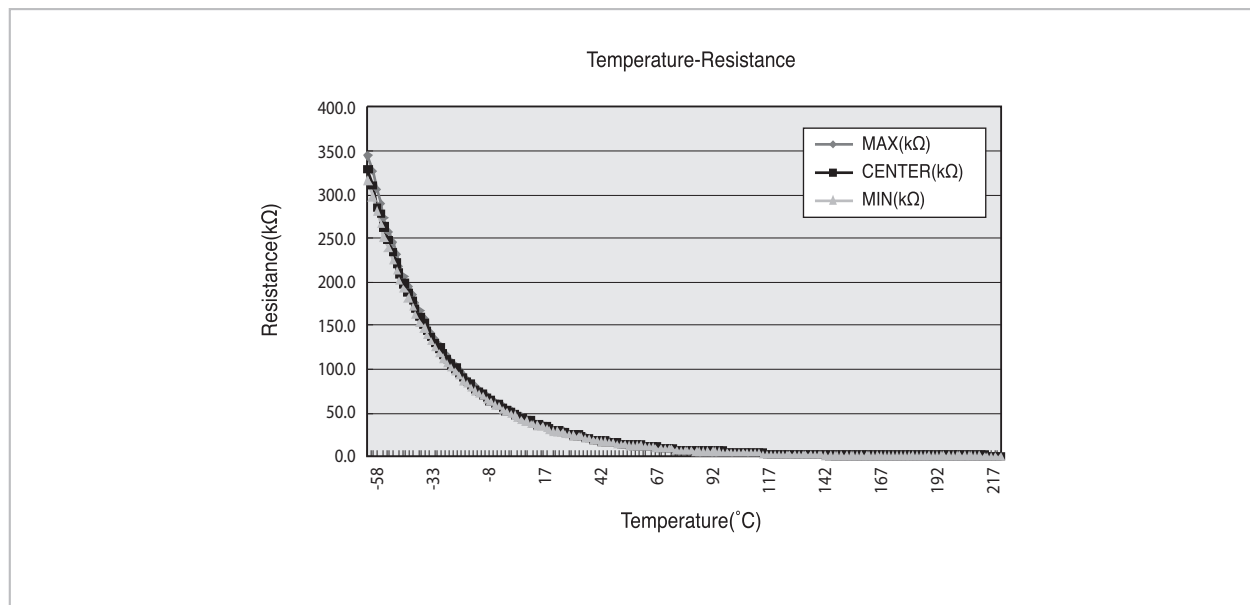
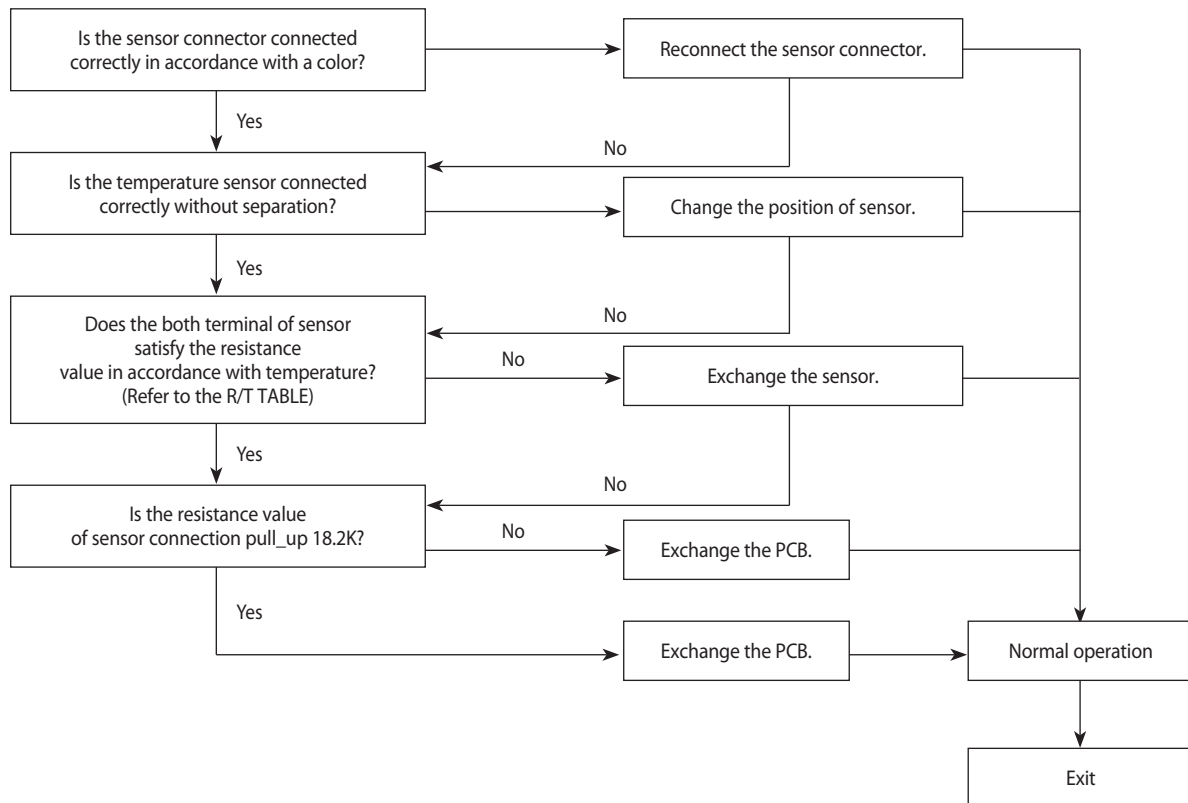


4-5-8 Coil temperature sensor error

1. Checklist :

- 1) Is the sensor connector connected correctly?
- 2) Is the sensor placed correctly?
- 3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?
- 4) Is the resistance value of sensor connection pull_up correct?

2. Troubleshooting procedure

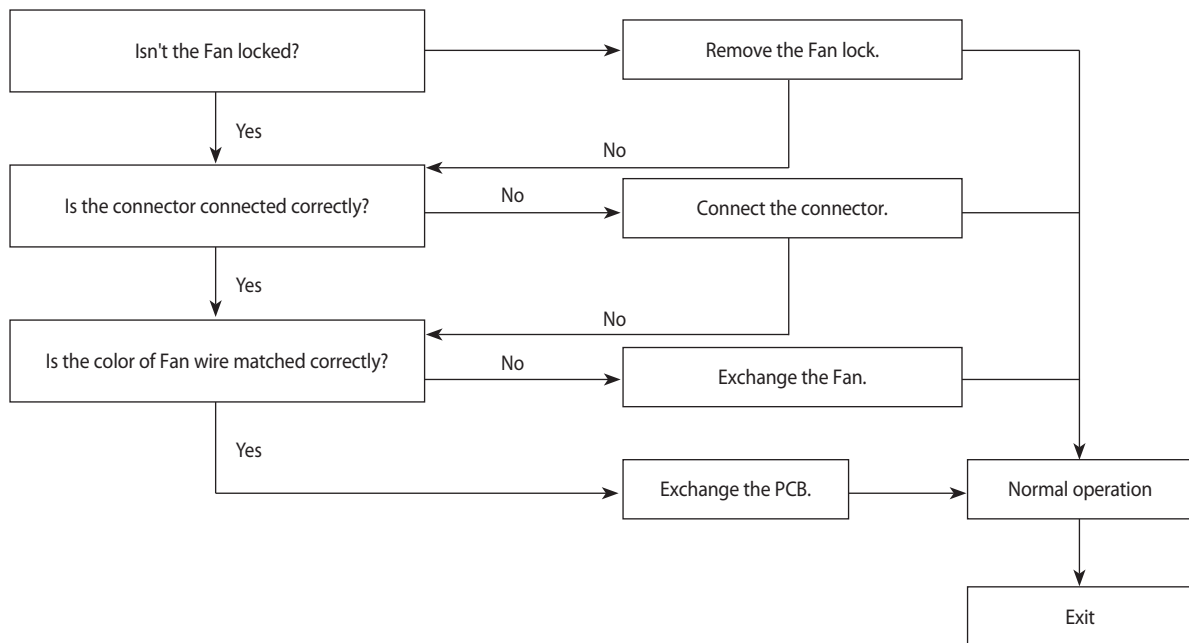


4-5-9 Fan error

1. Checklist :

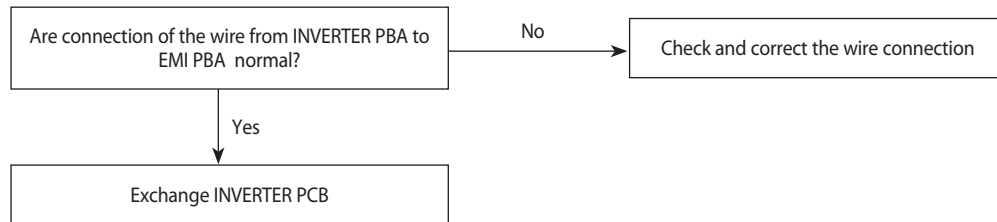
- 1) Isn't the fan locked?
- 2) Is the sensor placed correctly?
- 3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?
- 4) Is the resistance value of sensor connection pull_up correct?

2. Troubleshooting procedure



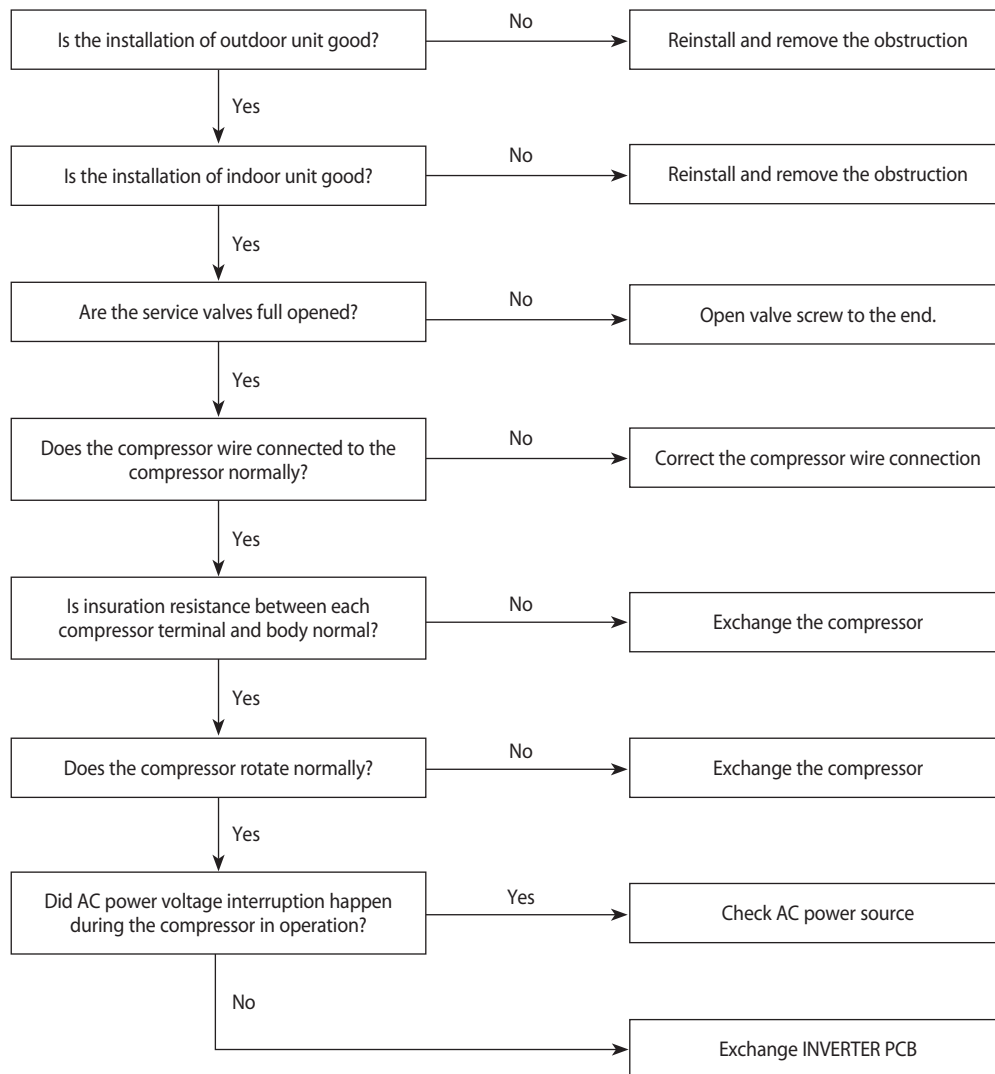
4-5-10 DC-Link voltage sensor error

1. Checklist :
 - 1) Is the connection of R, S, T power wire normal?
 - 2) Are Relay RY21 and R200 on the INVERTER PCB mounted normally?
2. Troubleshooting procedure



4-5-11 O.C.(Over Current) error

1. Checklist :
 - 1) Is the refrigerant charged properly?
 - 2) Does the compressor rotate normally?(Reverse rotation, Locking etc.)
 - 3) Is connection of compressor wire normal?
 - 4) Is compressor motor normal?(Insulation, Coil resistance etc.)
 - 5) Does a temporary cycle overload condition happened?
2. Troubleshooting procedure

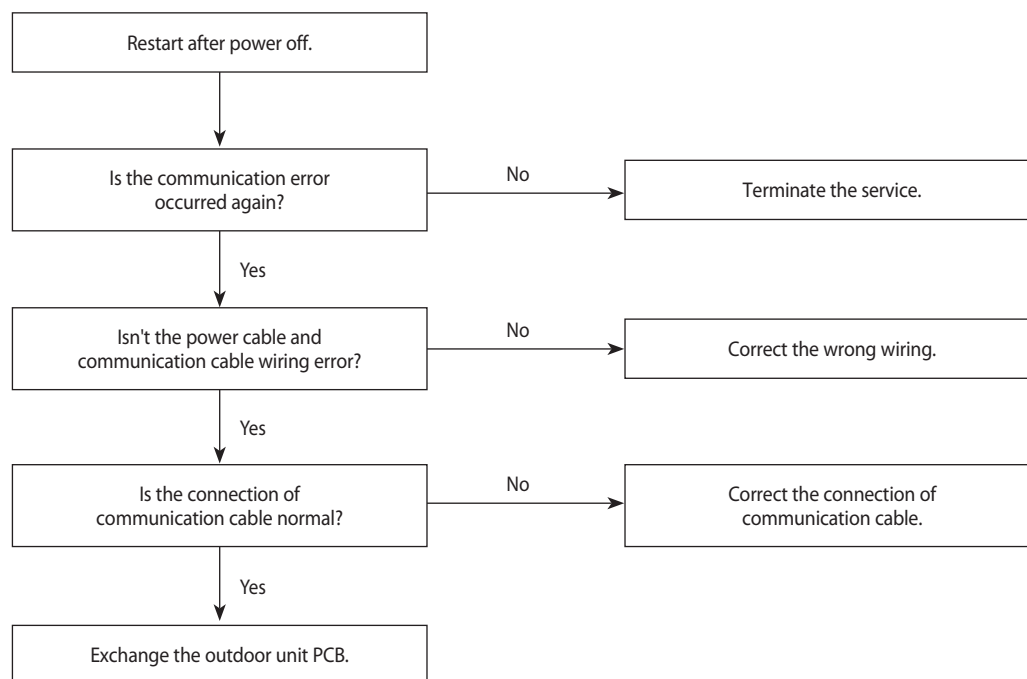


4-5-12 Communication error

1. Checklist :

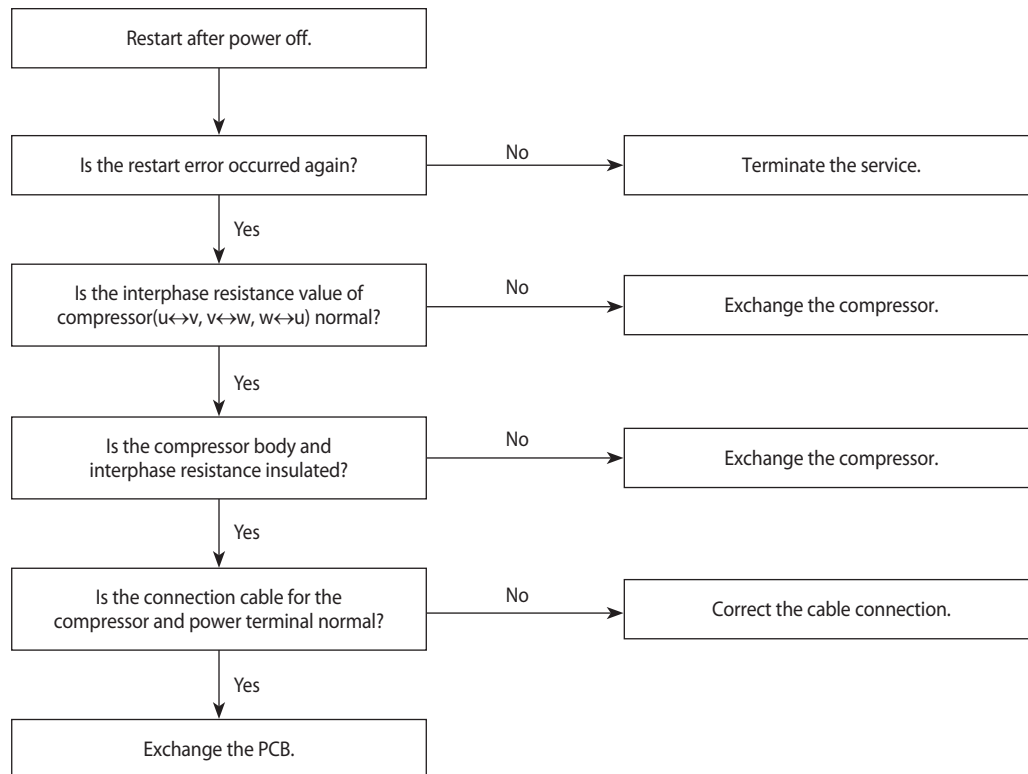
- 1) Is the communication cable between the indoor unit and outdoor unit connected correctly?
- 2) Isn't the power cable and communication cable wiring error?

2. Troubleshooting procedure



4-5-13 Compressor start error

1. Checklist :
 - 1) Is the connection of cable for the compressor and power?
 - 2) Is the interphase resistance of compressor normal?
2. Troubleshooting procedure

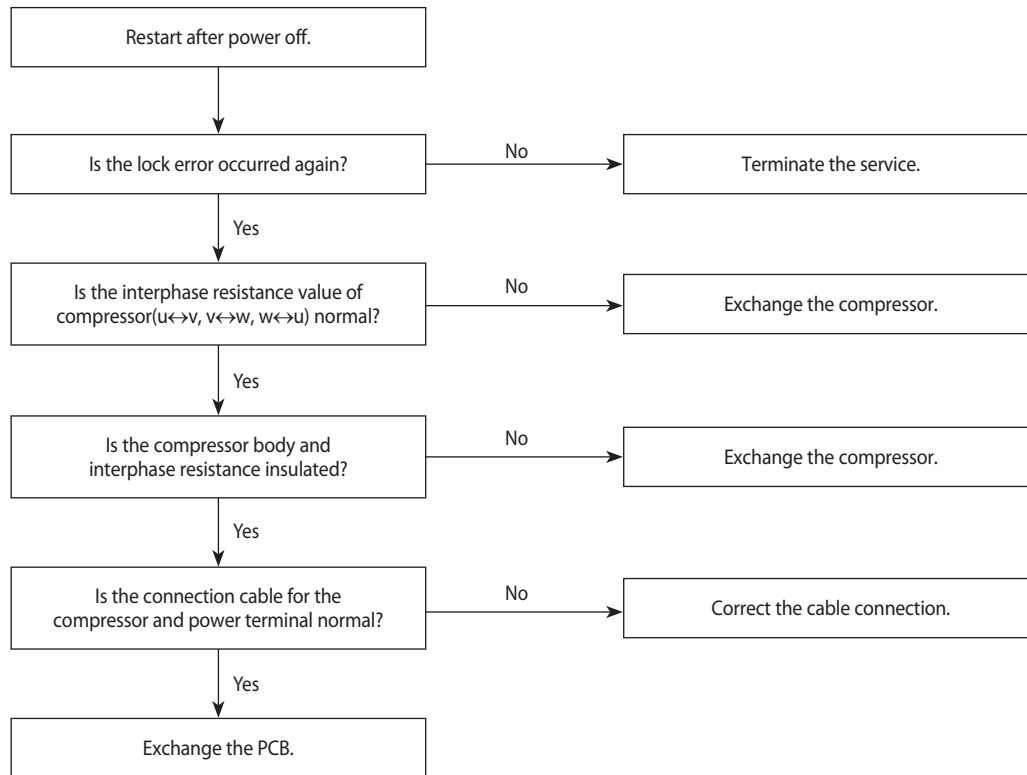


4-5-14 Compressor lock error

1. Checklist :

- 1) Is the connection of cable for the compressor and power?
- 2) Is the interphase resistance of compressor normal?

2. Troubleshooting procedure

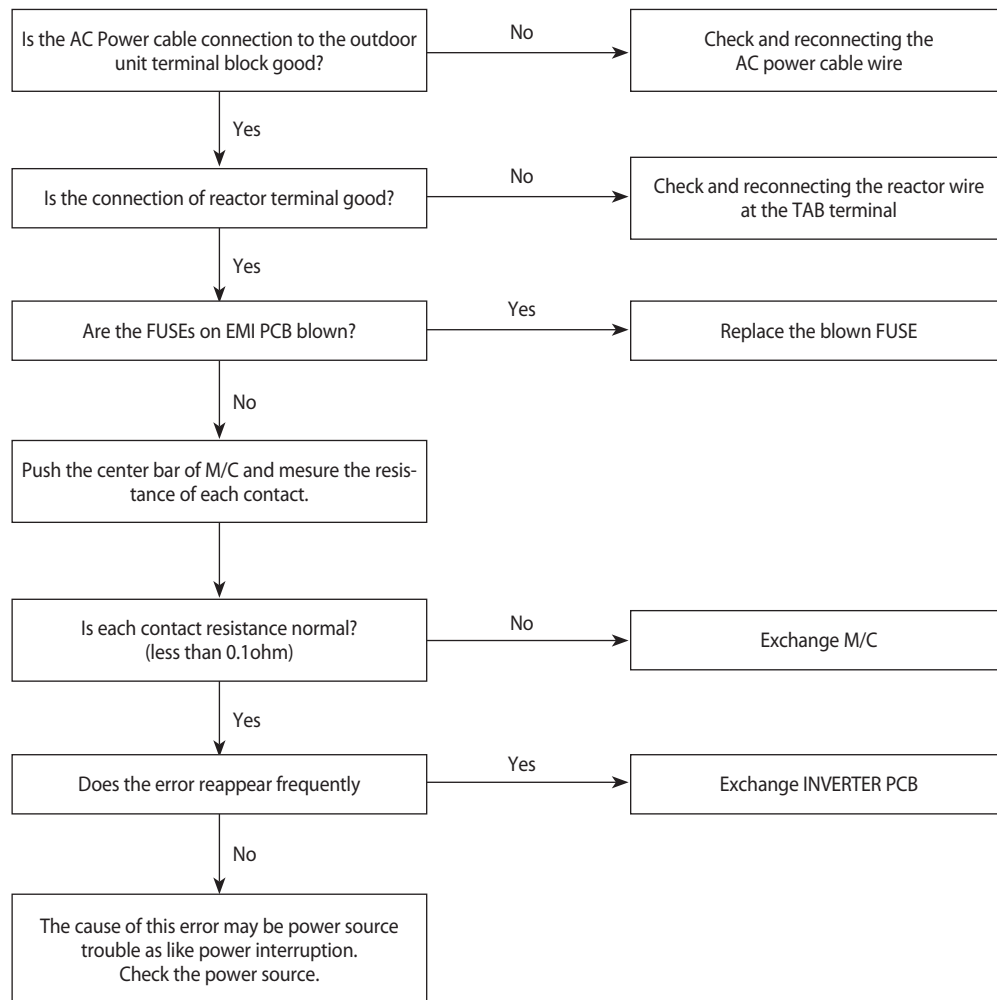


4-5-15 DC Link Over voltage/ Low voltage error

1. Checklist :

- 1) Is the power voltage normal?(Lightning, Power interruption etc.)
- 2) Is AC Power cable connection normal?(Detaching the wire)

2. Troubleshooting procedure



4-5-16 The others

1. Capacity miss match
 - Check again the indoor unit option code.

4-6 PCB Inspection Method

4-6-1 Pre-inspection Notices

1. Turn off the breaker, AC power source, before disassembling the unit because of electrical hazard.
2. Confirm the complete discharge of capacitor C102, C702, C703, C704, C705, C706, C707 on the INVERTER PCB when you touch the PCB. Especially discharging speed of C702-C707 is very slow because of little load in stand-by condition. To confirm the voltage of C702-C707, measure the DC link voltage at the IGBT module pins near C701 at which applying voltage(450-510Vdc) is marked.
To confirm discharging of C102, measure the voltage of non mounted C103 solder hole or check if all LEDs are off.
3. Don't touch the metal body of electrolytic capacitor for avoiding electrical shock before confirming discharge.
4. To discharging the capacitor use power resistor of about 1 Kohm 10W. Soldering tool(non electronic temperature control type) can be used as a discharging resistor.
5. Don't pull the lead wire but hold the whole housing to disconnect or connect a housing from or to the PCB.

4-6-2 Inspection Procedure

1. Check the connection of each housing to the connector first and the peeling of PCB copper pattern.
2. The PCB is composed of the 3 part in the indoor unit.
 - INDOOR Main PCB part : Indoor unit control, MICOM and surrounding circuit, relay, fan motor driving circuit, sensor reading circuit, buzzer driving circuit and DC power supplying circuit.
 - Display PCB part : LED lamps, Switch, Remocon module.
 - INDOOR EMI PCB part : Line filter, Noise Capacitor and Varistor
3. The PCB is composed of the 3 part in the outdoor unit.
 - EMI PCB part : Line filter for electrical noise, Varistors for surge and Fuses.
 - MAIN PCB part : Refrigeration cycle controller with MICOM
 - INVERTER PCB part : Compressor driving inverter and BLDC fan controller

4-6-3 Indoor Detailed Inspection Procedure

| No | Procedure | Inspection Method | Cause |
|----|---|--|---|
| 1 | Open the electronic component box and check the PCB fuse | Turn off the power 1) Is the Fuse F701 on the EMI PCB blown? 2) Is the Fuse F702 on the MAIN PCB blown? | <ul style="list-style-type: none">• Over current• Indoor fan motor short• PCB AC Part pattern short |
| 2 | Check the LEDs for DC power and communication condition | Turn on the power 1) Is RED LED blinking? his led means micom is running normally. 2) Is GREEN LED blinking? This means communication between Indoor and Outdoor unit is on 3) Is YELLOW LED blinking? This means communication between Indoor and wired remote controller is on. It may take one minute to start communication | <ul style="list-style-type: none">• Communication circuit trouble• Communication wire connection trouble• wrong connection for power supply wire of remote controller |
| 3 | Check the DIP and rotary switch on the PCB | 1) Is the setting of each switch proper? | <ul style="list-style-type: none">• Wrong setting of switch |
| 4 | Check the DC voltage | 1) Is the voltage of CN32 pin #1-#2 12V? 2) Is the voltage of C109 V? | <ul style="list-style-type: none">• SMPS on MAIN PBA trouble• Load short |
| 5 | FAN operation checking Press the ON/OFF button. 1. FAN Speed[HIGH] 2. FAN mode | 1) Is the FAN motor running? 2) Is the connection of CN73 normal? | <ul style="list-style-type: none">• Controller trouble inside of the fan motor• connector trouble of CN73 |

4-6-4 Outdoor Detailed Inspection Procedure

| No | Procedure | Inspection Method | Cause |
|----|--|--|---|
| 1 | Turn OFF the power and check wire and socket connection on each part | Wait until C702-C707 discharged 1) Is connection of housing to socket normal? 2) Is connection of each wire to terminal block normal? 3) Is the reactor wire connection normal? 4) Is there no miss-wiring of each cable? | <ul style="list-style-type: none"> • installation mistake • miss assembling |
| 2 | FUSE check | Is the fuses on each PCB normal? 3 fuses on EMI PCB 1 fuse on MAIN PCB 1 fuse on INVERTER PCB | <ul style="list-style-type: none"> • wire short • overload • BLDC FAN short error |
| 3 | Turn on the power and check voltage of terminal block | Is N-R,N-S,N-T around 230Vac? Is R-S,S-T,T-R around 400Vac? Is L-N(to indoor unit) around 230Vac? Is F1-F2 within 5Vdc? | <ul style="list-style-type: none"> • miss wiring of power cable • wire detaching |
| 4 | Check LED display on AIN PCB | 1) Is RED LED ON? 2) Is GREEN LED Blinking once a second? 3) Is LEDs displaying error code pattern? | <ul style="list-style-type: none"> • MAIN PCB power trouble • bad communication between indoor and outdoor unit • error detection |
| 5 | Check LED display on INVERTER PCB | 1) Is RED LED ON? 2) Is GREEN LED Blinking once a second? 3) Is LEDs displaying error code pattern? | <ul style="list-style-type: none"> • INVERTER PCB power trouble • NO communication between MAIN and INVERTER PCB • error detection |
| 6 | Check DC voltage of SMPS output | MAIN PCB 1) Is voltage of CN51 pin#1-#2 12-14.5V? 2) Is voltage of C108 5V? INVERTER PCB 3) Is voltage of CN51 pin#1-#2 5V? 4) Is voltage of C124 12V? 5) Is voltage of each ZD100,ZD101,ZD102,ZD103 17-18V? | <ul style="list-style-type: none"> • SMPS circuit trouble |
| 7 | Check INVERTER PCB | 1) Is resistance of R100 200ohm? To check this, touch one probe to CN10 pin#1(N) and the other to D101 upper side pin of '~' marking pins 2) Is DC Link voltage 450-510V? Check IGBT module pins marking voltage near C701 | <ul style="list-style-type: none"> • resister • wire connection between EMI PCB and INVERTER PCB |
| 8 | Check BLDC fan | 1) See 12-2-3 The Outdoor unit Fan error(Fault Diagnosis) | |

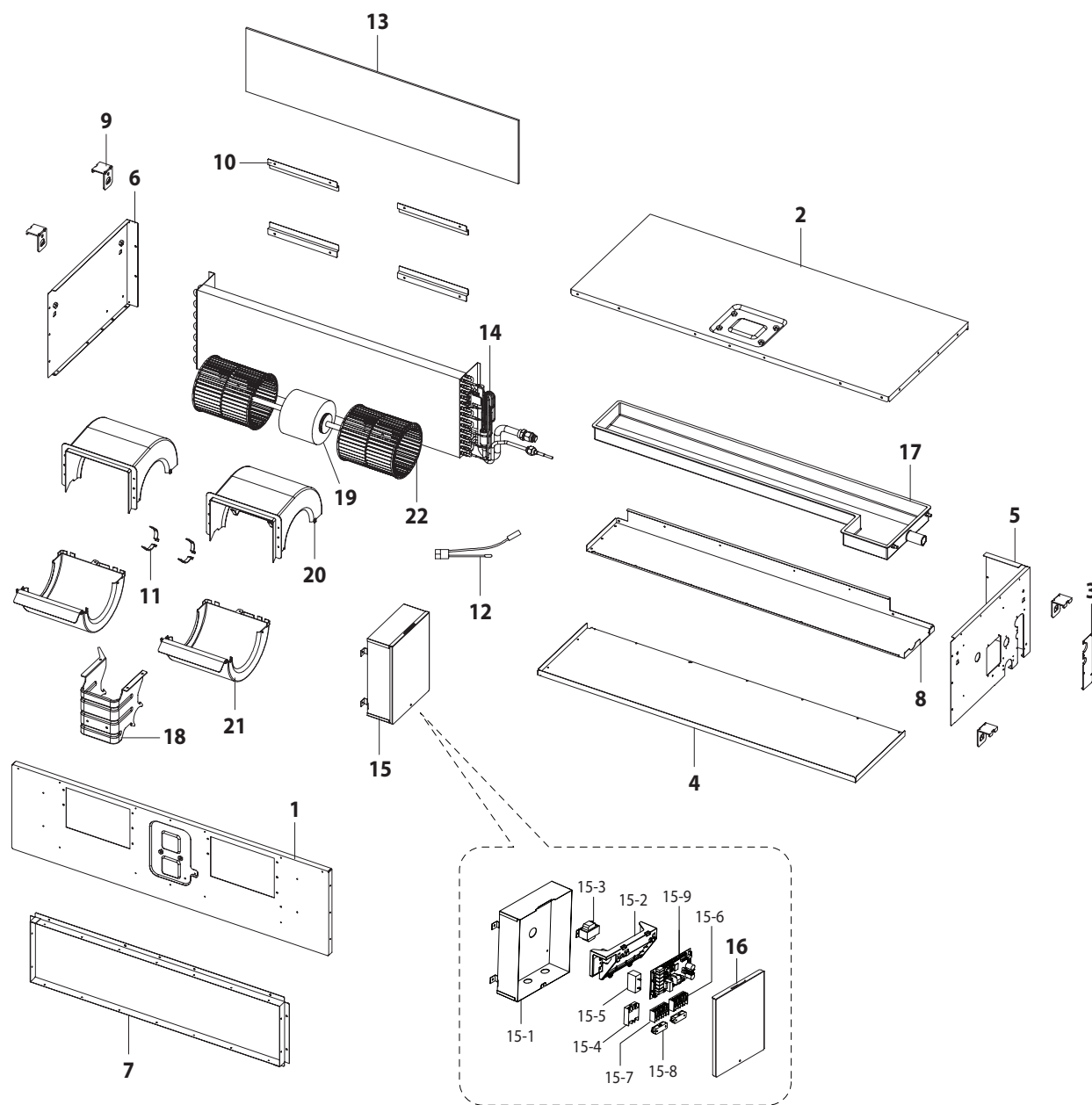
4-7 Main Part Inspection Method

| Part | Breakdown Inspection Method | | | | |
|--|---|--|-------------|---------------|--------------------|
| Indoor Unit Temperature Sensor | Measure sensor resistance with a multimeter | | | | |
| | Normal | At the normal temperature 37kΩ~8.3kΩ(-7°C~+30°C) | | | |
| | Abnormal | ∞,0Ω...Open or Short | | | |
| Indoor Unit BLDC FAN Motor | Measure terminal resistance with a multimeter | | | | |
| | Normal | At the normal temperature(10°C~30°C) | | | |
| | | wire | pin number | Resistance | Remark |
| | | RED - BLACK | 1-3 | over 1MΩ | +300V motor power |
| | | WHITE - BLACK | 4-3 | 1KΩ ~ 2KΩ | +15V control power |
| | | YELLOW - BLACK | 5-3 | 200KΩ ~ 300KΩ | control |
| BLUE - BLACK | | 6-3 | 10KΩ ~ 50KΩ | pulse | |
| Abnormal | ∞,0Ω...Open or Short | | | | |
| Outdoor Unit Outdoor Temperature Sensor & Cond Temperature Sensor | Measure sensor resistance with a multimeter | | | | |
| | Normal | At the normal temperature 37kΩ~8.3kΩ(-7°C~+30°C) see 12-2-6 and 12-2-8 | | | |
| | Abnormal | ∞,0Ω...Open or Short | | | |
| Outdoor Unit Discharge Temperature Sensor | Measure sensor resistance with a multimeter | | | | |
| | Normal | At the normal temperature 563kΩ~157kΩ(0°C~+30°C) see 12-2-7 | | | |
| | Abnormal | ∞,0Ω...Open or Short | | | |
| Outdoor Unit BLDC FAN MOTOR | Measure terminal resistance with a multimeter | | | | |
| | Normal | At the normal temperature(10°C~30°C) | | | |
| | | wire | pin number | Resistance | Remark |
| | | RED - BLACK | 1-3 | over 1MΩ | +300V motor power |
| | | WHITE - BLACK | 4-3 | 1KΩ ~ 2KΩ | +15V control power |
| | | YELLOW - BLACK | 5-3 | 200KΩ ~ 300KΩ | control |
| BLUE - BLACK | | 6-3 | 10KΩ ~ 50KΩ | pulse | |
| ORANGE - BLACK | 7-3 | 10KΩ ~ 50KΩ | reverse | | |
| Abnormal | 0Ω...Open or Short | | | | |
| Outdoor Unit 4way Valve Solenoid | Measure resistance with a multimeter | | | | |
| | Normal | At the normal temperature(10°C~30°C) 1.6KΩ±15% | | | |
| | Abnormal | ∞,0Ω...Open or Short | | | |

5. Exploded Views and Parts List

5-1 Indoor Unit

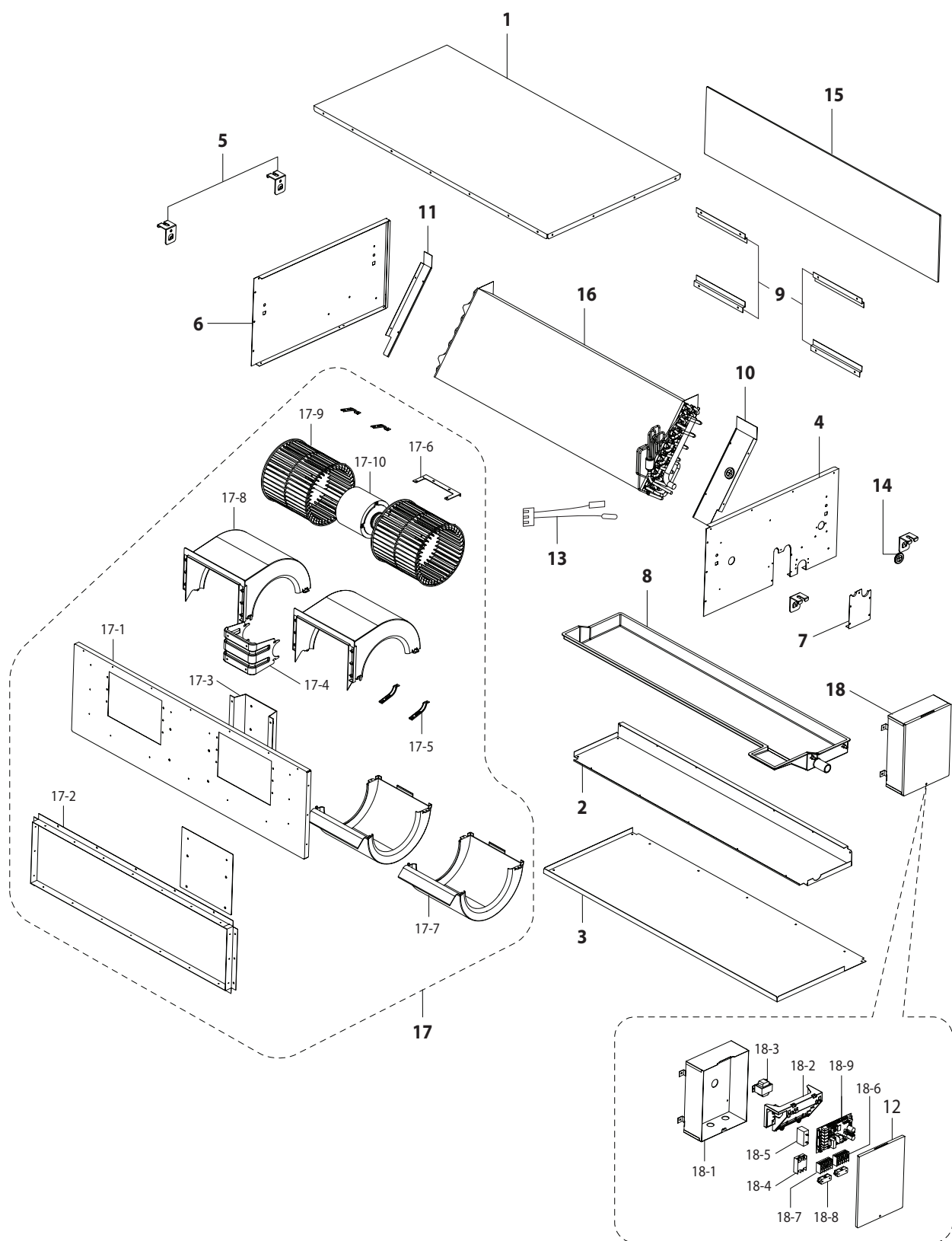
■ DH105CAV



■ Parts List

| No. | Code No. | Description | Specification | Q'TY | SA/SNA |
|------|-------------|-----------------------------|--------------------------------------|------|--------|
| 1 | DB90-02402A | ASS'Y CABINET FRONT | ASS'Y | 1 | SA |
| 2 | DB90-02403A | ASS'Y CABINET-TOP | ASS'Y | 1 | SA |
| 3 | DB90-02404A | ASS'Y COVER-PIPE | ASS'Y | 1 | SA |
| 4 | DB90-02405A | ASS'Y CABINET-BOTTOM BLOWER | ASS'Y | 1 | SA |
| 5 | DB90-02406A | ASS'Y CABINET-SIDE RH | ASS'Y | 1 | SA |
| 6 | DB90-02407A | ASS'Y CABINET-SIDE LF | ASS'Y | 1 | SA |
| 7 | DB90-02408A | ASS'Y-BRACKET OUTLET PART | ASS'Y | 1 | SNA |
| 8 | DB90-02409A | ASS'Y CABINET-BOTTOM DRAIN | ASS'Y | 1 | SA |
| 9 | DB61-01282A | HOLDER-SIDE CABI | SGCC-M,T3.0,45.2,65 | 4 | SNA |
| 10 | DB61-02374A | BRACKET-FILTER | SGCC-M,T1.0,50,250 | 4 | SA |
| 11 | DB97-03751A | ASS'Y-BAND MOTOR | ASS'Y | 1 | SNA |
| 12 | DB32-00142B | THERMISTOR-IN | 10Kohm,103AT,-20~+100 | 1 | SA |
| 13 | DB63-01299B | FILTER-PRE | ASS'Y | 1 | SA |
| 14 | DB96-06727A | ASS'Y EVAP-UNIT | ASS'Y | 1 | SNA |
| 15 | DB93-05008C | ASS'Y CONTROL IN | ASS'Y | 1 | SNA |
| 15-1 | DB90-01992B | ASS'Y CASE-CONTROL | ASS'Y | 1 | SA |
| 15-2 | DB61-02287A | CASE PCB | ABS V0,T2.5 | 1 | SA |
| 15-3 | DB26-00080A | TRANS POWER | AC 230V, 50HZ,DC 17V,DC 0.6A,VDE,ICE | 1 | SNA |
| 15-4 | 3502-001035 | SSR | DC 12V,-,10A,1ms | 1 | SNA |
| 15-5 | 2301-001381 | C-FILM,LEAD-OTHER | 8000nF,+10-5%,450V,BK,58x30x44mm | 1 | SA |
| 15-6 | DB65-00105L | TERMINAL BLOCK | DAF-S6P | 1 | SA |
| 15-7 | DB65-00105M | TERMINAL BLOCK | DAF-S6P | 1 | SA |
| 15-8 | DB61-00250A | HOLDER-WIRE CLAMP | ABS,BLK,ISI,SAMLINE | 2 | SNA |
| 15-9 | DB93-03213S | ASS'Y PCB MAIN-IN | ASS'Y | 1 | SA |
| 16 | DB63-01296A | COVER-CONTROL | SGCC-M,T0.8 | 1 | SA |
| 17 | DB91-00346A | ASS'Y DRAIN PAN | ASS'Y | 1 | SA |
| 18 | DB61-02331A | BRACKET MOTOR | SGCC-M,T2.0 | 1 | SA |
| 19 | DB31-00355A | MOTOR FAN | YSK140-200-4A | 1 | SA |
| 20 | DB61-02332A | CASE BLOWER-UPPER | ABS,T2.0 | 2 | SA |
| 21 | DB61-02333A | CASE BLOWER-BOTTOM | ABS,T2.0 | 2 | SA |
| 22 | DB67-00583B | BLOWER-D | ABS | 2 | SA |

■ DH140CAV

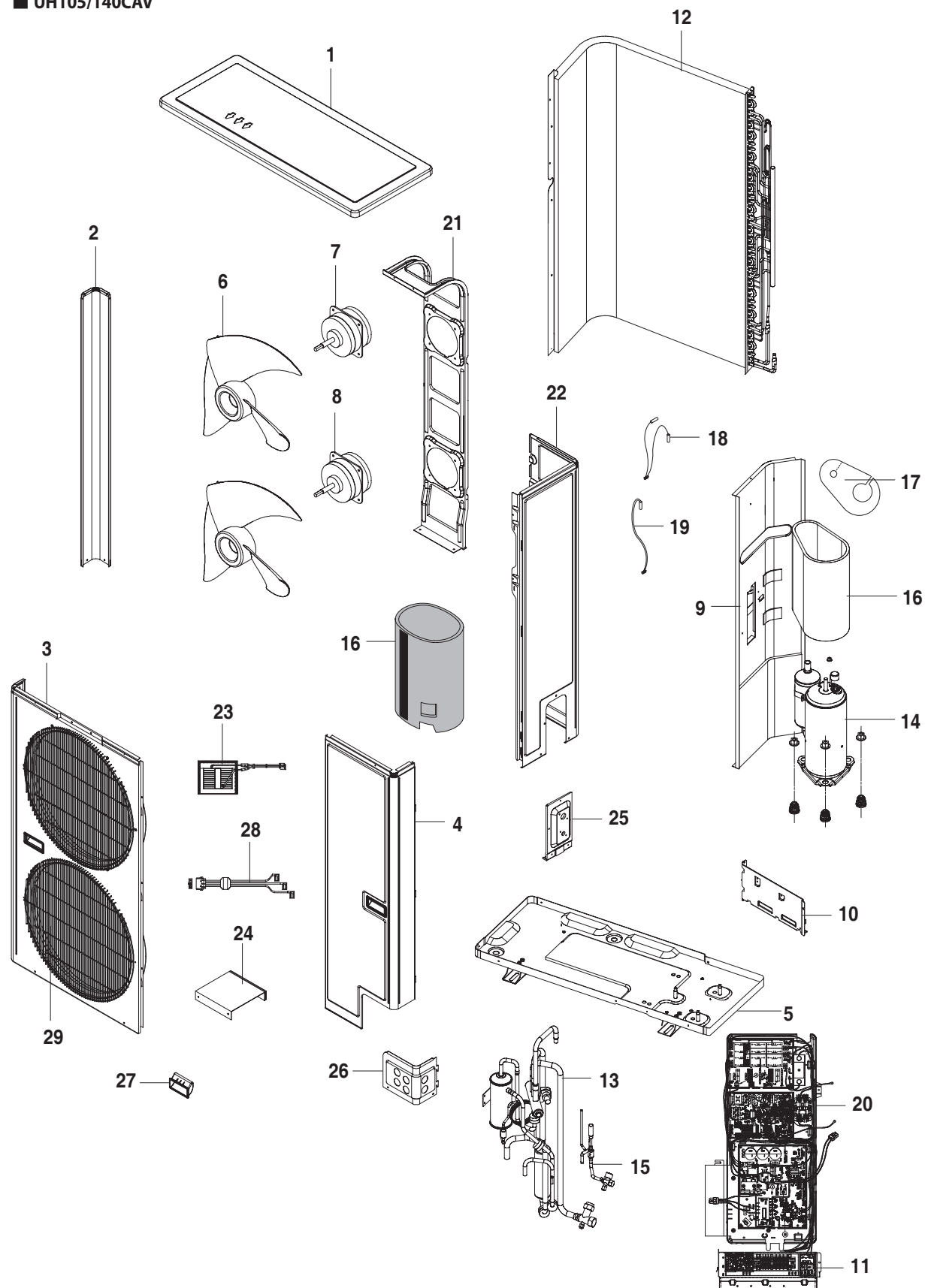


■ Parts List

| No. | Code No. | Description | Specification | Q'TY | SA/SNA |
|-------|-------------|---------------------------|----------------------|------|--------|
| 1 | DB90-02083A | ASS'Y CABINET TOP | ASS'Y,SGCC-M T1.0 | - | SA |
| 2 | DB90-02007A | ASS'Y CABI BOTTOM DRAIN | ASS'Y,SGCC-M T1.0 | 1 | SA |
| 3 | DB90-02008A | ASS'Y CABI BOTTOM BLOWER | ASS'Y,SGCC-M T1.0 | 1 | SA |
| 4 | DB90-02009A | ASS'Y CABI SIDE RH | ASS'Y,SGCC-M T1.0 | 1 | SA |
| 5 | DB61-01282A | HOLDER SIDE CABI | ASS'Y,SGCC-M T3.0 | 4 | SNA |
| 6 | DB90-02010A | ASS'Y CABI SIDE LF | ASS'Y,SGCC-M T1.0 | 1 | SA |
| 7 | DB90-02011A | ASS'Y COVER PIPE | ASS'Y,SGCC-M T1.0 | 1 | SA |
| 8 | DB91-00317A | ASS'Y DRAIN PAN | ASS'Y,ABS/GF10 T3.0 | 1 | SA |
| 9 | DB61-02374A | BRACKET FILTER | ASS'Y,SGCC-M T1.0 | 4 | SNA |
| 10 | DB61-02380A | BRACKET EVAP RH | ASS'Y,SGCC-M T1.5 | 1 | SA |
| 11 | DB61-02379A | BRACKET EVAP LF | ASS'Y,SGCC-M T1.5 | 1 | SA |
| 12 | DB63-01296A | COVER CONTROL | ASS'Y,SGCC-M T0.8 | 1 | SA |
| 13 | DB32-00142B | THERMISTOR-ASS'Y | 103AT,103FW | 1 | SA |
| 14 | DB73-00270A | RUBBER COVER WIRE | NBR | 2 | SNA |
| 15 | DB63-01299A | FILTER PRE | ASS'Y | 1 | SA |
| 16 | DB96-06728A | ASS'Y EVAP UNIT | 3R16C WAVE 1.5,OD7.0 | 1 | SA |
| 17 | - | - | - | - | - |
| 17-1 | DB90-02028A | ASS'Y CABI FRONT | ASS'Y,SGCC-M T1.5 | 1 | SNA |
| 17-2 | DB90-02013A | ASS'Y BRACKET OUTLET PART | ASS'Y,SGCC-M T1.0 | 1 | SA |
| 17-3 | DB61-02372A | BASE MOTOR | ASS'Y,SGCC-M T2.5 | 1 | SNA |
| 17-4 | DB61-02375A | BRACKET MOTOR | ASS'Y,SGCC-M T2.5 | 1 | SNA |
| 17-5 | DB72-00710A | BAND MOTOR | ASS'Y,SGCC-M T1.6 | 4 | SA |
| 17-6 | DB61-00540B | BRACKET MOTOR GUIDE | ASS'Y,SGCC-M T1.6 | 1 | SNA |
| 17-7 | DB61-02382A | CASE FAN LOW | ASS'Y,ABS/GF10 T3.0 | 2 | SA |
| 17-8 | DB61-02381A | CASE FAN UP | ASS'Y,ABS/GF10 T3.0 | 2 | SA |
| 17-9 | DB67-00594A | BLOWER | ASS'Y,ABS/GF10 OD230 | 2 | SA |
| 17-10 | DB31-00321C | MOTOR FAN | YDK-370S65023-01 | 1 | SA |
| 18 | DB93-05008C | ASS'Y CONTROL IN | ASS'Y | 1 | SA |
| 18-1 | DB90-01992B | ASS'Y CASE CONTROL | ASS'Y,SGCC-M T1.0 | 1 | SNA |
| 18-2 | DB61-02287A | CASE PCB | ABS V0 | 1 | SA |
| 18-3 | DB26-00080A | TRANS POWER | DC17V | 1 | SNA |
| 18-4 | 3502-00103S | SSR | OMRON G3NA-210BPL | 1 | SNA |
| 18-5 | 2301-001381 | C-FILM,LEAD-OTHER | 8uF 450VAC | 1 | SA |
| 18-6 | DB65-00105M | TERMINAL BLOCK 6P | 250V,20A | 1 | SNA |
| 18-7 | DB65-00105L | TERMINAL BLOCK 6P | 250V,20A | 1 | SNA |
| 18-8 | DB61-00250A | HOLDER-WIRE CLAMP | NYLON | 2 | SNA |
| 18-9 | DB93-03213S | ASS'Y PCB MAIN | ASS'Y | 1 | SA |

5-2 Outdoor Unit

■ UH105/140CAV

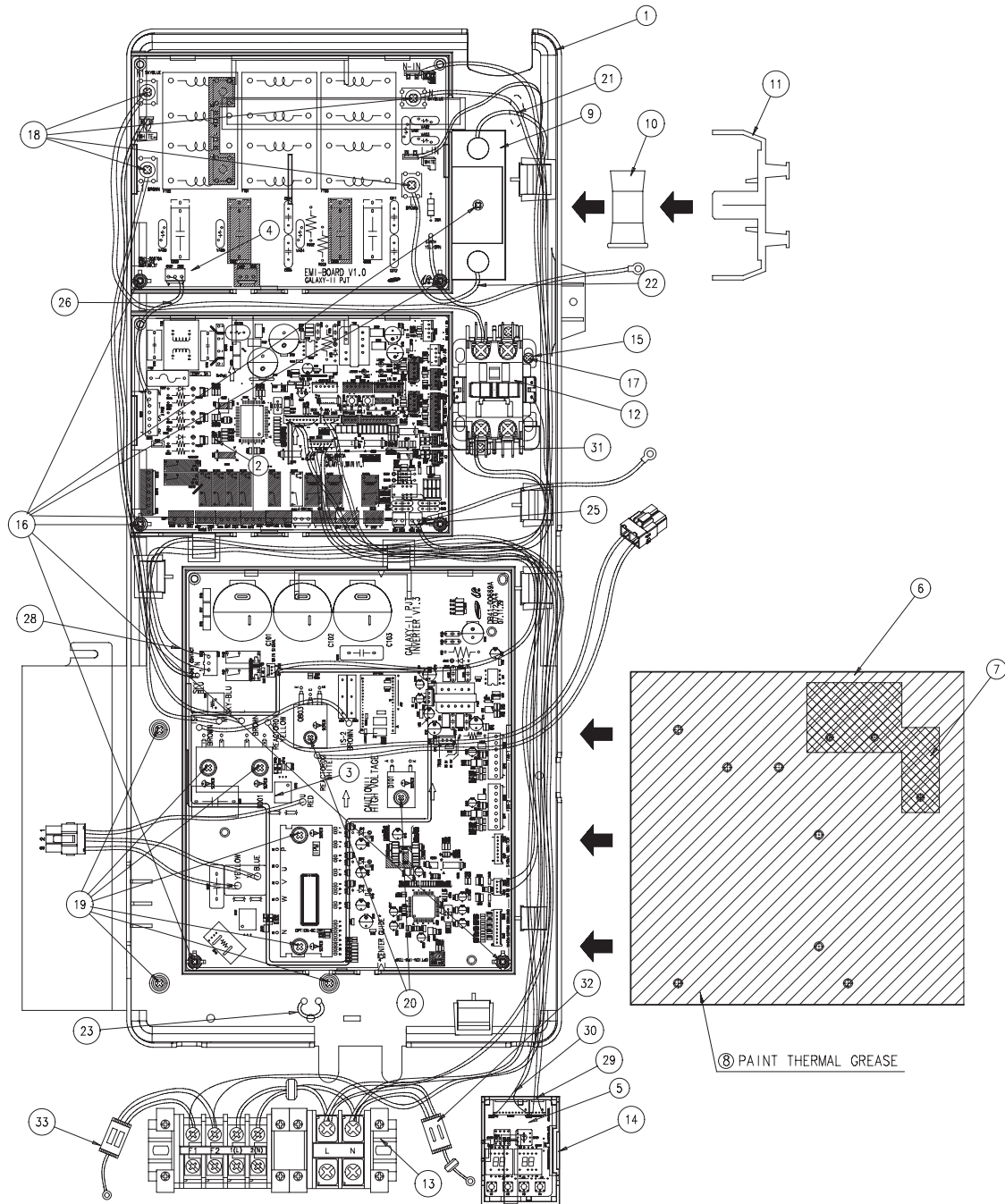


Parts List

| No. | Code No. | Description | SPEC | Q'TY | | SA/SNA |
|-----|-------------|-------------------------------|------------------------|----------|----------|--------|
| | | | | UH105CAV | UH140CAV | |
| 1 | DB90-01533B | ASS'Y-CABI TOP COVER | SECC-P,0.8T | 1 | 1 | SA |
| 2 | DB90-01588A | ASS'Y CABI BACK LF | SECC-P,1.2T | 1 | 1 | SA |
| 3 | DB90-01535B | ASS'Y-CABI FRONT LF | SECC-P,0.8T | 1 | 1 | SA |
| 4 | DB90-01534C | ASS'Y CABI FRONT RH | SECC-P,0.8T | 1 | 1 | SA |
| 5 | DB99-00538E | ASS'Y-CABI BASE PART | SGCC-M,T1.6 | 1 | 1 | SNA |
| 6 | DB67-00438B | FAN-PROPELLER | ABS+GF10% | 2 | 2 | SNA |
| 7 | DB31-00386H | MOTOR FAN | DL-95835SSOA | 1 | 1 | SNA |
| 8 | DB31-00386J | MOTOR FAN | DL-95835SSOB | 1 | 1 | SNA |
| 9 | DB90-03986A | ASS'Y-PRATITION | SGCC-M,T0.8 | 1 | 1 | SA |
| 10 | DB61-03566A | PLATE-CONTROL UP | SGCC-M,T1.0 | 1 | 1 | SA |
| 11 | DB93-06548B | ASS'Y-PLATE CONTROL LOW | SGCC-M,T1.0 | 1 | 1 | SA |
| 12 | DB96-09606A | ASS'Y COND UNIT | 2x52,SLIT,SLICA,FP1.5 | - | 1 | SNA |
| | DB96-09416A | ASS'Y COND UNIT | 2x52,SLIT,FP1.5 | 1 | - | SNA |
| 13 | DB96-09433A | ASS'Y-4WAY VALVE | HP,3/8,3/4,G5T450FUAEX | - | 1 | SNA |
| | DB96-09402A | ASS'Y-4WAY VALVE | HP,3/8,5/8,G5T360FUAEK | 1 | - | SNA |
| 14 | G5T450FUAEX | COMPRESSOR | G5T450FUAEX | - | 1 | SNA |
| | G5T360FUAEK | COMPRESSOR | G5T360FUAEK | 1 | - | SNA |
| 15 | DB96-09431A | ASS'Y-EEV VALVE | ASSY | - | 1 | SA |
| | DB96-09431B | ASS'Y-EEV VALVE | ASSY | 1 | - | SA |
| 16 | DB63-02008A | FELT-COMP SOUND | GRAY FELT+EVAR | 1 | 1 | SA |
| 17 | DB63-02007A | FELT-TOP COVER | GRAY FELT+EVAR | 1 | 1 | SA |
| 18 | DB95-01419A | ASS'Y THEMISTOR-OLP/COND | ASSY | 1 | 1 | SA |
| 19 | DB95-01420A | ASS'Y THEMISTOR-AIR/DISCHARGE | ASSY | 1 | 1 | SA |
| 20 | DB93-05841A | ASS'Y CONTROL OUT | UH140CAV | - | 1 | SA |
| | DB93-05841B | ASS'Y CONTROL OUT | UH105CAV | 1 | - | SA |
| 21 | DB94-01767A | ASS'Y BRACKET MOTOR | SGCC-M,T1.6 | 1 | 1 | SNA |
| 22 | DB90-01637C | ASS'Y CABI BACK RH | SECC-P,0.8T | 1 | 1 | SA |
| 23 | DB27-00055A | COIL CHOKE-REACTOR | RIXBHF040B1,4.4mH,10% | 1 | 1 | SA |
| 24 | DB90-02583A | ASS'Y-MOTOR BRACKET SUB | SGCC-M,T1.2 | - | 1 | SNA |
| | DB90-02583B | ASS'Y-MOTOR BRACKET SUB | SGCC-M,T1.2 | 1 | - | SNA |
| 25 | DB97-02613A | ASS'Y BRACKET-VAVLE | SGCC-M,T1.6 | - | 1 | SNA |
| | DB90-02434A | ASS'Y BRACKET-VAVLE | SGCC-M,T1.6 | 1 | - | SNA |
| 26 | DB61-01910B | BRACKET-WIRE | SECC-P,1.0T | 1 | 1 | SA |
| 27 | DB64-01231A | HANDLE | ABS,V0 | 3 | 3 | SA |
| 28 | DB93-05954A | ASS'Y CONNECTOR WIRE-COMP | ASSY | 1 | 1 | SA |
| 29 | DB63-00691A | GUARD FAN | MSWR | 2 | 2 | SA |

5-3 Assy control out

■ UH105/140CAV



■ Parts List

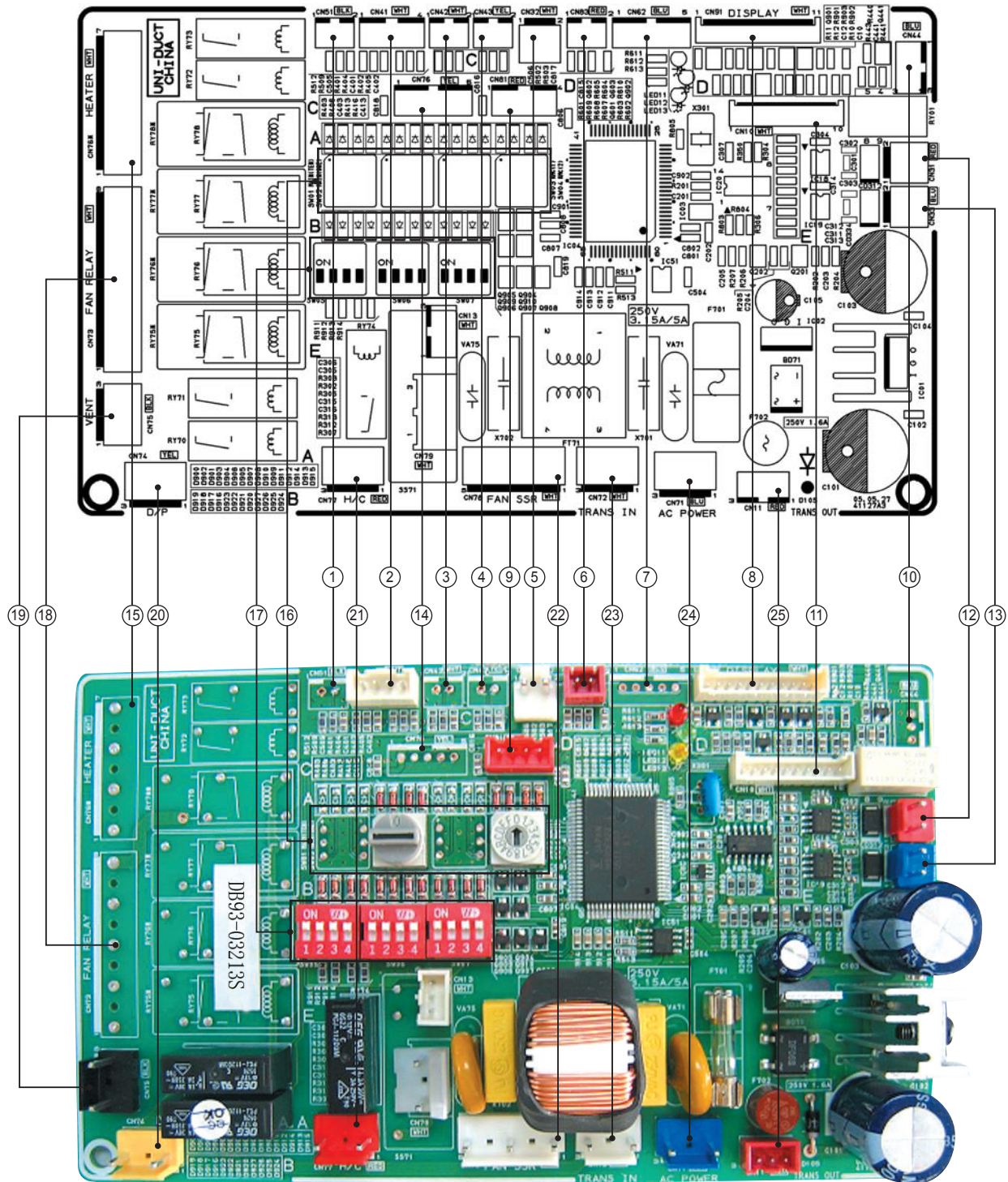
| No. | Code No. | Description | SPEC | QTY | | SA/SNA |
|-----|-------------|-----------------------------------|-------------------------|----------|----------|--------|
| | | | | UH140CAV | UH105CAV | |
| 1 | DB61-03568A | CASE CONTROL-OUT | ABS,2,5,328,611.6,BLACK | 1 | 1 | SA |
| 2 | DB93-05842A | ASSY PCB MAIN-OUT | GALAXY2 | 1 | 1 | SA |
| 3 | DB93-05843A | ASSY PCB MAIN-INVERTER | UH140EAV | 1 | - | SA |
| | DB93-05843B | ASSY PCB MAIN-INVERTER | UH105EAV | - | 1 | SA |
| 4 | DB93-05844A | ASSY PCB SUB-EMI | GALAXY2 | 1 | 1 | SA |
| 5 | DB93-05955A | ASSY PCB SUB-DISPLAY | GALAXY2 | 1 | 1 | SA |
| 6 | DB62-05407A | HEAT SINK | AL6063 | 1 | 1 | SA |
| 7 | DB62-05533A | INSULATION | MICA | 1 | 1 | SNA |
| 8 | DB98-24813A | ASSY-THERMAL GREASE | | 5g | 5g | SA |
| 9 | 3602-001043 | FUSE-BLOCK | L60060C-1C | 1 | 1 | SA |
| 10 | 3601-001445 | FUSE-CARTRIDGE | CCMR040 | 1 | 1 | SA |
| 11 | 3602-001044 | FUSE-BLOCK COVER | L60060C-1C | 1 | 1 | SA |
| 12 | DB35-00061A | RELAY | | 1 | 1 | SA |
| 13 | DB95-01315G | ASSY-TERMINAL BLOCK | 600V,35A,4P+600V,60A,2P | 1 | 1 | SA |
| 14 | DB61-01948A | CASE-SUB PCB | ABS,V0 | 1 | 1 | SA |
| 15 | DB60-00321A | FASTENER-NUT | CU | 1 | 1 | SA |
| 16 | 6002-000536 | SCREW-TAPPING | PH,2S,M4,L10 | 7 | 7 | SNA |
| 17 | 6001-001683 | SCREW-HEX | HWH,M4,L10,SWRCH18A | 1 | 1 | SNA |
| 19 | DB91-00307A | ASSY-SCREW MACHINE | M4*16,WSP,PH,ZPC | 7 | 7 | SA |
| 20 | DB91-00306A | ASSY-SCREW MACHINE | M3*16,WSP,PH,ZPC | 2 | 2 | SA |
| 21 | DB93-06326A | ASSY CONNECTOR WIRE-FUSE | UH140EAV,SSEC | 1 | 1 | SA |
| 22 | DB93-06327A | ASSY CONNECTOR WIRE-FUSE | UH140EAV,SSEC | 1 | 1 | SA |
| 23 | DB71-50031B | HOLDER WIRE | NYLON6/6 | 1 | 1 | SA |
| 25 | DB93-06331A | ASSY CONNECTOR WIRE-COMM | UH140EAV,SSEC | 1 | 1 | SA |
| 26 | DB93-06332A | ASSY CONNECTOR WIRE-POWER | UH140EAV,SSEC | 1 | 1 | SA |
| 28 | DB93-06336A | ASSY CONNECTOR WIRE-POWER | UH140EAV,SSEC | 1 | 1 | SA |
| 29 | DB93-06324A | ASSY CONNECTOR WIRE-DISPLAY | UH140EAV,SSEC | 1 | 1 | SA |
| 30 | DB93-06325A | ASSY CONNECTOR WIRE-DISPLAY | UH140EAV,SSEC | 1 | 1 | SA |
| 31 | DB93-06337A | ASSY CONNECTOR WIRE-MAIN INVERTER | 7P | 1 | 1 | SA |
| 32 | DB95-01040H | ASSY-NOISE ABSORBER | UH140EAV,SSEC | 1 | 1 | SA |
| 33 | DB93-01469S | ASSY PCB SUB | 220nF*2 | 1 | 1 | SA |

MEMO

6. PCB Diagram and Parts List

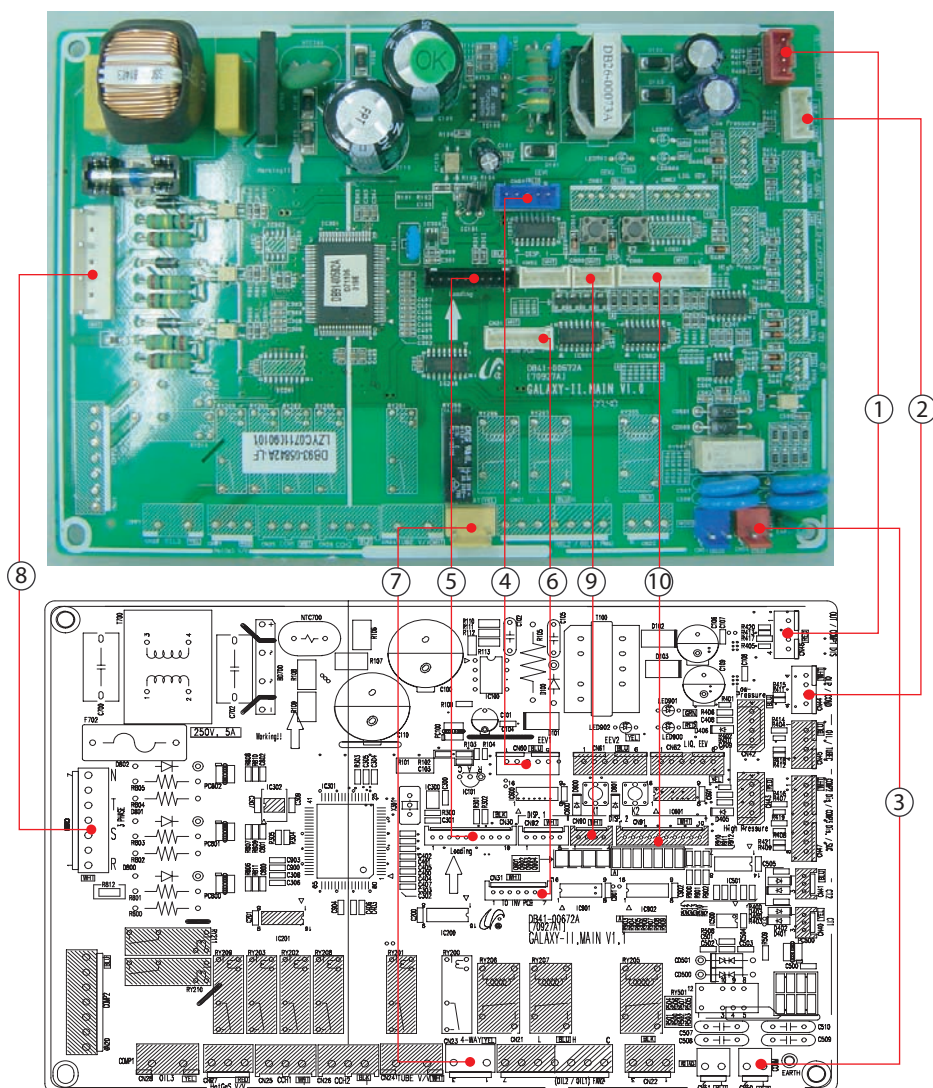
6-1. Block Diagram

6-1-1 INDOOR MAIN PCB



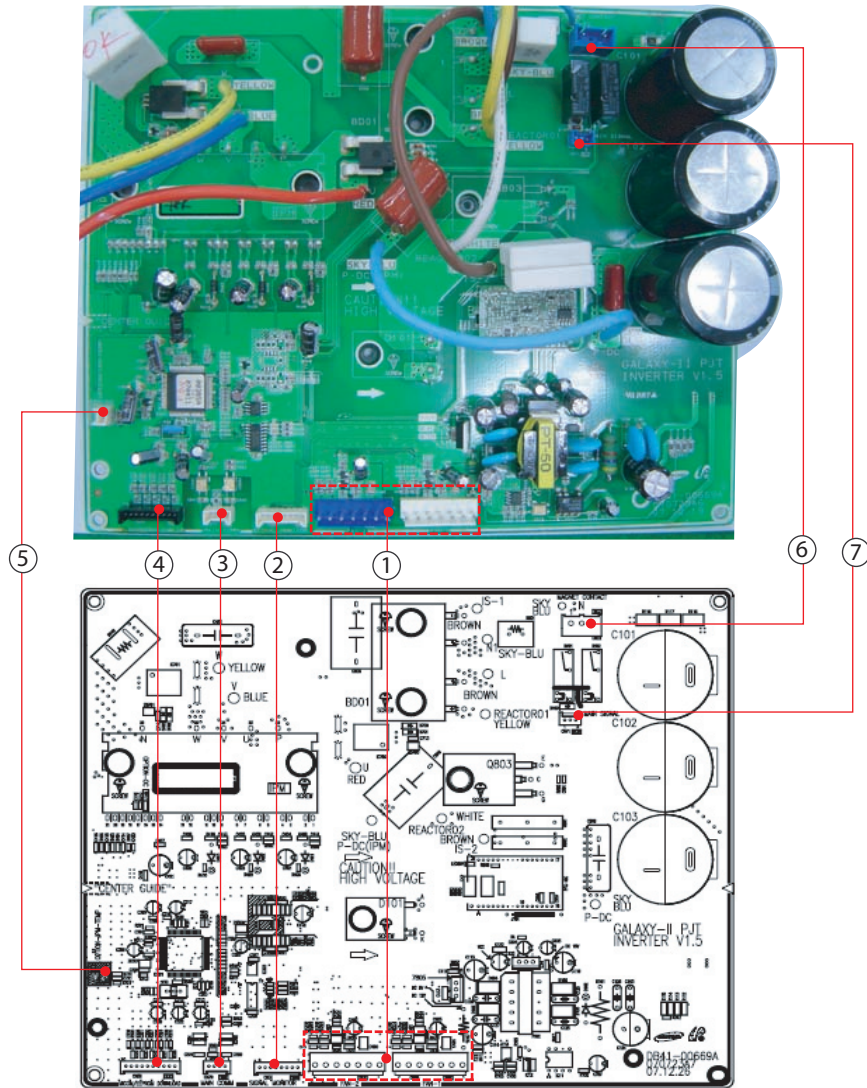
| | | | |
|---|--|---|---|
| ① | Floating S/W : SMW250-02(BLK) | ⑬ | Wired Remote Controller Communication : YW396-02(BLU) |
| ② | Indoor Pipe In Temperature Sensor : SMW250-04(WHT) | ⑭ | Option Load Connector : SMW250-05(YEL) |
| | Indoor Room Temperature Sensor : SMW250-04(WHT) | ⑮ | Heater : YW39607AV(WHT) |
| ③ | Indoor Pipe Out : SMW250-02(WHT) | ⑯ | Indoor Address S/W |
| | Temperature Sensor : SMW250-02(WHT) | ⑰ | Indoor Option S/W |
| ④ | Heater Discharge : SMW250-02(YEL) | ⑱ | Indoor Fan(TAP) : YW396-09AV(WHT) |
| | Temperature Sensor : SMW250-02(YEL) | ⑲ | Ventilator : YW396-03AV(BLK) |
| ⑤ | Wired Remote Controller Power : YW396-02(WHT) | ⑳ | Drain Pump : YW396-03AV(YEL) |
| ⑥ | External Control(S/W Part) : SMW250-02(RED) | ㉑ | Hot Coil : YW396-03AV(RED) |
| ⑦ | EEV : SMW250-05(BLU) : SMW250-05(BLU) | ㉒ | Indoor Fan(SSR) : YW396-03AV(RED) |
| ⑧ | Display : SMW200-11(WHT) : SMW200-11(WHT) | ㉓ | Power : YW396-03AV(WHT) |
| ⑨ | External Control(Display Part) : SMW250-04(RED) | | Transformer Out : YW396-03AV(WHT) |
| ⑩ | HALL IC : SMW250-03(BLU) | ㉔ | Main Power In : YW396-03AV(BLU) |
| ⑪ | MICOM Download : SMW200-10(WHT) | ㉕ | Power : YW396-03AV(BLU) |
| ⑫ | Indoor/Outdoor Communication : YW396-02(RED) | | Transformer In : SMW250-03(RED) |

6-1-2 OUTDOOR MAIN PCB(UH105/140CAV)



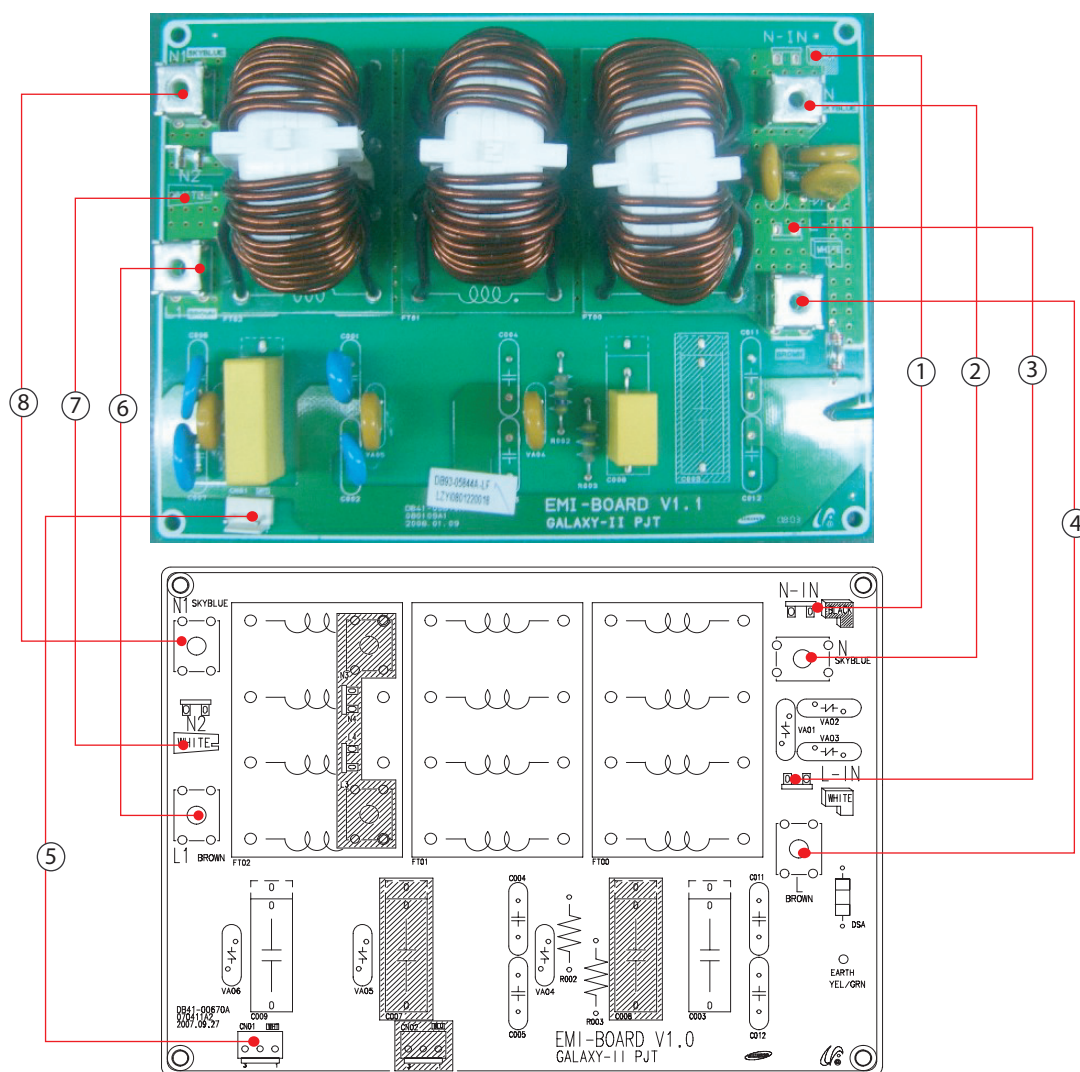
| | | | |
|---|--|---|---|
| <p>①CN46(4PIN/RED):THERMISTOR #1: TXD_OUTDOOR TEMP.Sensing #3:TXD_DISCHARGE TEMP.Sensing #2,4:GND</p> | <p>②CN44(4PIN/WHT):THERMISTOR #1,2:Not used #3:TXD_COND. TEMP.Sensing #4:GND</p> | <p>③CN50(2PIN/RED): COMMUNICATION #1,2:TXD/RXD_COMM</p> | <p>④CN60(5PIN/BLU):EEV #1~4:RXD_EEV Operating Signal #5:12V</p> |
| <p>⑤CN30(10PIN/BLK): DOWNLOADING</p> | <p>⑥CN31(7PIN/WHT):INVERTER PBA #1:TDX_MAIN #2:RXD_MAIN #3:GND #4:VCC #5:12V #6:INV_SMPS_RELAY #7:Not used</p> | <p>⑦CN23(3PIN/YEL):4WAY #1:N phase #2:Not used #3:TXD_4WAY Operating Signal</p> | <p>⑧CN80(4PIN/WHT):POWER IN #1,3:Not used #5:L Phase #7:N phase</p> |
| <p>⑨CN90(4PIN/WHT):DISPLAY #1~4:RXD_Operating Signal of MAIN PCB</p> | <p>⑩CN91(10PIN/WHT):DISPLAY #1~7:7-SEGMENT #8~10:TXD_KEY INPUT SIGNAL</p> | | |

6-1-3 OUTDOOR INVERTER PCB(UH105/140CAV)



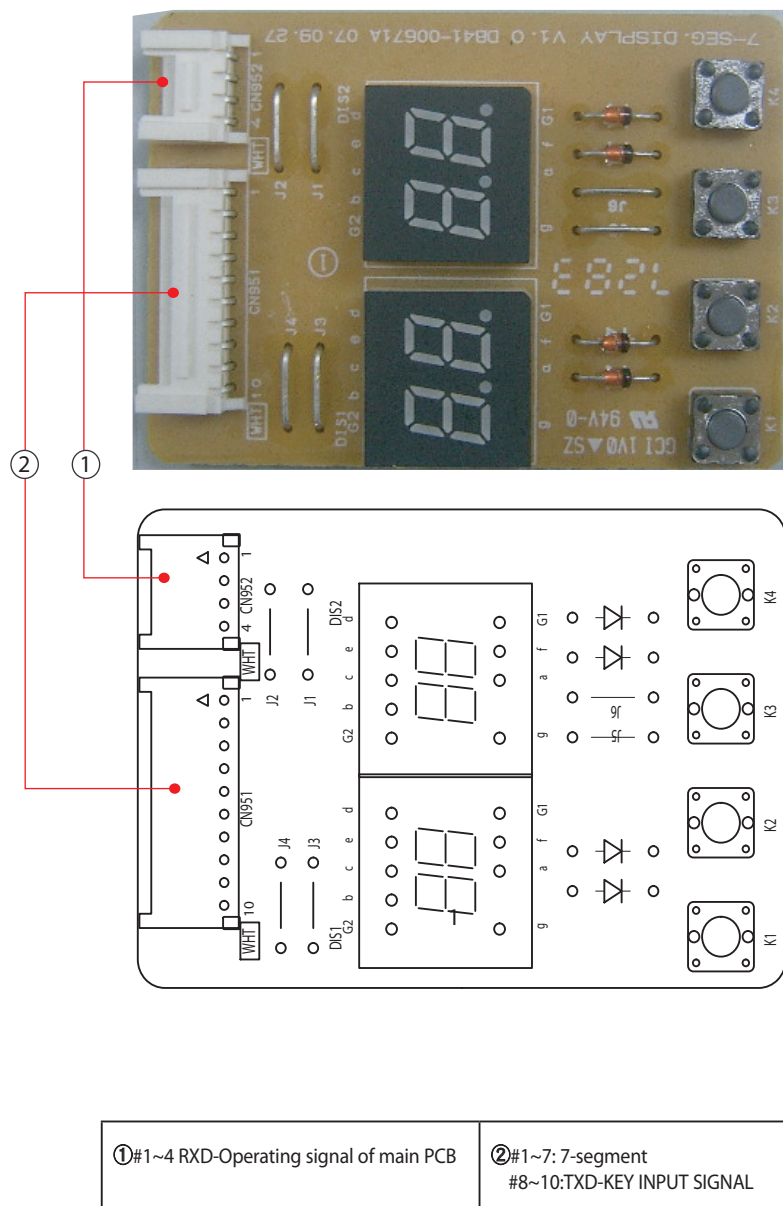
| | | | |
|--|---|--|-------------------------------------|
| <p>①CN40,CN41(7PIN/WHT):BLDC FAN MOTOR #1: DC LINK VOLATAGE #2:Not used #3:GND,#4:15V #5:FAN RPM Sensing #6:Fan FG #7:Fan Backlash Sensing</p> | <p>②CN31(8PIN/WHT):SIGNAL MOUNTOR #1:16V #2:5V #3: LOADDACCS #4:CS_DAC1 #5:CS_DAC2 #6CLK_DAC #7:DATA_DAC #8:GND</p> | <p>③CN70(4PIN/WHT): #1:TXD:MAIN #2:RXD_MAIN #3:GND #4:5V</p> | <p>④CN30(10PIN/WHT):DOWNLOADING</p> |
| <p>⑤CN72(2PIN/WHT):IPM TEMP #1:TXD_IPM TEMP SIGNAL #2: GND</p> | <p>⑥CN22(2PIN/WHT) #1:L phase IN #2:N phase in</p> | <p>⑦ CN71(3PIN/BLU) #1:12V #2:INV_SMPS_RELAY #3: Not used</p> | |

6-1-4 OUTDOOR EMI PCB(UH105/140CAV)



| | | | |
|---|---|--|-------------------------------------|
| ①N-IN(BLK) INDOOR UNIT POWER(N phase) | ②N(SKYBLU) POWER(N phase) | ③L-IN(WHT) INDOOR UNIT POWER(L phase) | ④L(BRN) POWER(L phase) |
| ⑤CN01(3PIN/WHT) #1: N phase POWER of MAIN PBA #2:Not used #3:L phase POWER of MAIN PBA | ⑥L1(BRN) L phase POWER of INVERTER PBA | ⑦ N2(TAB/WHT) N phase POWER of INVERTER PBA | ⑧N1(SKYBLU) N phase POWER TO M/C |

6-1-5 OUTDOOR DISPLAY PCB



6-2. PCB Parts List

INDOOR MAIN PCB(DH105/140CAV:DB93-03213S)

| Location No. | Code No. | Description | Specification | QTY | SA/SNA | Remark |
|--------------|-------------|---------------------|---------------------------------------|-----|--------|--------|
| D904 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D905 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D906 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D907 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D912 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D913 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D914 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D915 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D916 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D917 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D918 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D919 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D920 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D921 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D922 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D923 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D924 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D925 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D926 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D927 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D105 | 0402-000137 | DIODE-RECTIFIER | 1N4007,1KV,1A,DO-41,TP | 1 | SNA | |
| BD71 | 0402-001298 | DIODE-BRIDGE | DF06S,600V,1A,SMD-4,TP | 1 | SNA | |
| CD312 | 0406-001204 | DIODE-TVS | SMBJ5.0CA,6.4/-7.07V,600W,SMB | 1 | SNA | |
| CD334 | 0406-001204 | DIODE-TVS | SMBJ5.0CA,6.4/-7.07V,600W,SMB | 1 | SNA | |
| Q201 | 0501-000534 | TR-SMALL SIGNAL | 2SC2412K,NPN,200mW,SOT-23,TP,180-390 | 1 | SNA | |
| Q202 | 0501-000534 | TR-SMALL SIGNAL | 2SC2412K,NPN,200mW,SOT-23,TP,180-390 | 1 | SNA | |
| Q441 | 0501-000534 | TR-SMALL SIGNAL | 2SC2412K,NPN,200mW,SOT-23,TP,180-390 | 1 | SNA | |
| Q601 | 0501-000534 | TR-SMALL SIGNAL | 2SC2412K,NPN,200mW,SOT-23,TP,180-390 | 1 | SNA | |
| Q602 | 0501-000534 | TR-SMALL SIGNAL | 2SC2412K,NPN,200mW,SOT-23,TP,180-390 | 1 | SNA | |
| Q603 | 0501-002296 | TR-SMALL SIGNAL | MMST2907A,PNP,200MW,SMT3,TP,100-300 | 1 | SNA | |
| Q901 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q902 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q904 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q905 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q906 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q907 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q908 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q909 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q910 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| IC05 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| IC06 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| IC07 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| IC08 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| IC09 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| LED11 | 0601-001373 | LED | ROUND,RED,3MM,630NM | 1 | SNA | |
| LED12 | 0601-001375 | LED | ROUND,GRN,3mm,570nm,3.8x5.3mm | 1 | SNA | |
| LED13 | 0601-001377 | LED | ROUND,YEL,3mm,585nm,3.8x5.3mm | 1 | SNA | |
| IC20 | 0801-000393 | IC-CMOS LOGIC | 74HC86,OR GATE,SOP | 1 | SNA | |
| IC18 | 1006-001371 | IC-LINE TRANSCEIVER | ISL3175EIBZ,SOIC,8P | 1 | SNA | |
| IC19 | 1006-001371 | IC-LINE TRANSCEIVER | ISL3175EIBZ,SOIC,8P | 1 | SNA | |
| IC51 | 1103-001175 | IC-EEPROM | 93LC56,128x16,SOP,8P | 1 | SNA | |
| IC01 | 1203-000243 | IC-POSIFIXED REG. | 7812,TO-220,3P,-,PLASTIC | 1 | SNA | |
| IC02 | 1203-000274 | IC-POSIFIXED REG. | 7805,TO-220,3P,-,PLASTIC,4.8/5 | 1 | SNA | |
| IC03 | 1203-003334 | IC-RESET | S-801,SOT-23,5P,2.9x1.6mm | 1 | SNA | |
| VA71 | 1405-000154 | VARIATOR | 460Vdc,2500A,17.5x7.5mm,TP | 1 | SNA | |

INDOOR MAIN PCB(DH105/140CAV:DB93-03213S cont.)

| Location No. | Code No. | Description | Specification | Q'TY | SA/SNA | Remark |
|--------------|-------------|-------------|----------------------------|------|--------|--------|
| VA75 | 1405-000154 | VARISTOR | 460Vdc,2500A,17.5x7.5mm,TP | 1 | SNA | |
| R10 | 2007-000023 | R-CHIP | 120ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R11 | 2007-000023 | R-CHIP | 120ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R12 | 2007-000023 | R-CHIP | 120ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R204 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R302 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R304 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R305 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R306 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R307 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R312 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R313 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R503 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R512 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R602 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R608 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R609 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R803 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R804 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R903 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R911 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R912 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R913 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R914 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R201 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R205 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R206 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R207 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R350 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R441 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R443 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R601 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R603 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R607 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R902 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R805 | 2007-000477 | R-CHIP | 1Mohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R413 | 2007-000613 | R-CHIP | 24Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R202 | 2007-000686 | R-CHIP | 3.3Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R610 | 2007-000686 | R-CHIP | 3.3Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R404 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R405 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R406 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R416 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R502 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R509 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R901 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R611 | 2007-000872 | R-CHIP | 4.7Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R612 | 2007-000872 | R-CHIP | 4.7Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R613 | 2007-000872 | R-CHIP | 4.7Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R604 | 2007-000931 | R-CHIP | 470ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R605 | 2007-000931 | R-CHIP | 470ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R511 | 2007-000938 | R-CHIP | 47Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R513 | 2007-000938 | R-CHIP | 47Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R401 | 2007-001067 | R-CHIP | 6.8Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R402 | 2007-001067 | R-CHIP | 6.8Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R403 | 2007-001067 | R-CHIP | 6.8Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R440 | 2007-001071 | R-CHIP | 6.8Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| C302 | 2203-000189 | C-CER,CHIP | 100nF,+80-20%,25V,Y5V,1608 | 1 | SNA | |

INDOOR MAIN PCB(DH105/140CAV:DB93-03213S cont.)

| Location No. | Code No. | Description | Specification | QTY | SA/SNA | Remark |
|--------------|-------------|-------------------|-------------------------------------|-----|--------|--------|
| C303 | 2203-000189 | C-CER,CHIP | 100nF,+80-20%,25V,Y5V,1608 | 1 | SNA | |
| C312 | 2203-000189 | C-CER,CHIP | 100nF,+80-20%,25V,Y5V,1608 | 1 | SNA | |
| C313 | 2203-000189 | C-CER,CHIP | 100nF,+80-20%,25V,Y5V,1608 | 1 | SNA | |
| C10 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C102 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C104 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C12 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C201 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C202 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C203 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C304 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C305 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C306 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C307 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C314 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C315 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C316 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C401 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C402 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C403 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C413 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C504 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C505 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C506 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C801 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C802 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C806 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C807 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C808 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C815 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C816 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C817 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C818 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C819 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C902 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C301 | 2203-000257 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | 1 | SNA | |
| C311 | 2203-000257 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | 1 | SNA | |
| C901 | 2203-000444 | C-CER,CHIP | 1nF,10%,50V,X7R,2012 | 1 | SNA | |
| C204 | 2203-001562 | C-CER,CHIP | 10nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C205 | 2203-001562 | C-CER,CHIP | 10nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C441 | 2203-001562 | C-CER,CHIP | 10nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C911 | 2203-001562 | C-CER,CHIP | 10nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C912 | 2203-001562 | C-CER,CHIP | 10nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C913 | 2203-001562 | C-CER,CHIP | 10nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C914 | 2203-001562 | C-CER,CHIP | 10nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| X701 | 2301-001220 | C-FILM,LEAD-PPF | 100nF,10%,275V,BK,18x6x12,15 | 1 | SNA | |
| X702 | 2301-001220 | C-FILM,LEAD-PPF | 100nF,10%,275V,BK,18x6x12,15 | 1 | SNA | |
| C105 | 2401-000037 | C-AL | 470uF,20%,16V,GP,TP,8x11.5,5 | 1 | SNA | |
| C103 | 2401-000711 | C-AL | 2200uF,20%,25V,GP,TP,16x25,7.5 | 1 | SNA | |
| C101 | 2401-002216 | C-AL | 2200uF,20%,35V,GP,TP,16x25,7.5 | 1 | SNA | |
| X301 | 2802-001179 | RESONATOR-CERAMIC | 4MHZ,0.5%,BK,8X3X5.5MM | 1 | SNA | |
| SW02 | 3406-001098 | SWITCH-ROTARY | 240V AC,25A,6P(10C),L14mm | 1 | SNA | |
| SW05 | 3407-000121 | SWITCH-DIP | 24V,300mA,SLIDE,STANDARD | 1 | SNA | |
| SW06 | 3407-000121 | SWITCH-DIP | 24V,300mA,SLIDE,STANDARD | 1 | SNA | |
| SW07 | 3407-000121 | SWITCH-DIP | 24V,300mA,SLIDE,STANDARD | 1 | SNA | |
| RY70 | 3501-001154 | RELAY-MINIATURE | 12Vdc,200mW,3000mA,1FormA,10mS,10mS | 1 | SNA | |
| RY71 | 3501-001154 | RELAY-MINIATURE | 12Vdc,200mW,3000mA,1FormA,10mS,10mS | 1 | SNA | |

INDOOR MAIN PCB(DH105/140CAV:DB93-03213S cont.)

| Location No. | Code No. | Description | Specification | Q'TY | SA/SNA | Remark |
|--------------|-------------|-----------------------|---------------------------------------|------|--------|--------|
| RY74 | 3501-001154 | RELAY-MINIATURE | 12Vdc,200mW,3000mA,1FormA,10mS,10mS | 1 | SNA | |
| RY01 | 3501-001248 | RELAY-MINIATURE | 12V,-,11.7MA,DPDT,4MS,4MS | 1 | SNA | |
| F701 | 3601-000297 | FUSE-CARTRIDGE | 250V,5A,TIME-LAG,GLASS,5.2x20mm | 1 | SNA | |
| F702 | 3601-001308 | FUSE | 250V,1.6A,TIME-LAG,PLASTIC,8.4x7.6mm | 1 | SNA | |
| CN13 | 3711-000024 | HEADER-BOARD TO CABLE | BOX,3P,1R,2.5MM,STRAIGHT,SN,WHT | 1 | SNA | |
| CN33 | 3711-000176 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU | 1 | SNA | |
| CN31 | 3711-000177 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,3.96MM,STRAIGHT,SN,RED | 1 | SNA | |
| CN32 | 3711-000178 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,3.96mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN72 | 3711-000203 | HEADER-BOARD TO CABLE | 1WALL,2P/3P,1R,7.92mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN78 | 3711-000262 | HEADER-BOARD TO CABLE | 1WALL,3P,1R,7.92MM,STRAIGHT,SN,WHT | 1 | SNA | |
| CN51 | 3711-000794 | HEADER-BOARD TO CABLE | BOX,2P,1R,2.5mm,STRAIGHT,SN,BLK | 1 | SNA | |
| CN83 | 3711-000796 | HEADER-BOARD TO CABLE | BOX,2P,1R,2.5MM,STRAIGHT,SN,RED | 1 | SNA | |
| CN11 | 3711-000880 | HEADER-BOARD TO CABLE | BOX,3P,1R,2.5MM,STRAIGHT,SN,RED | 1 | SNA | |
| CN81 | 3711-000939 | HEADER-BOARD TO CABLE | BOX,4P,1R,2.5mm,STRAIGHT,SN,RED | 1 | SNA | |
| CN41 | 3711-000940 | HEADER-BOARD TO CABLE | BOX,4P,1R,2.5mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN79 | 3711-002855 | HEADER-BOARD TO CABLE | BOX,2P,1R,7.92mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN71 | 3711-003404 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,7.92mm,STRAIGHT,SN,BLU | 1 | SNA | |
| CN75 | 3711-003405 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,7.92mm,STRAIGHT,SN,BLK | 1 | SNA | |
| CN74 | 3711-003406 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,7.92MM,STRAIGHT,SN,YEL | 1 | SNA | |
| CN77 | 3711-003407 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,7.92MM,STRAIGHT,SN,RED | 1 | SNA | |
| CN91 | 3711-003845 | HEADER-BOARD TO CABLE | BOX,11P,1R,2mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN10 | 3711-005716 | HEADER-BOARD TO CABLE | BOX,10P,1R,2mm,STRAIGHT,SN,BLK | 1 | SNA | |
| FT71 | DB27-00033A | COIL CHOKE | FILTER,S50 | 1 | SNA | |
| SW04 | DB34-00009A | SWITCH-DIGITAL | PT65 103,ROTARY | 1 | SNA | |
| Board | DB41-00364A | PBA LOGIC BOARD | miniDVM_slimduct_chi | 1 | SA | |
| F701_1 | DB61-00924A | HOLDER-FUSE | -,FH-51B,-,-,-,-,SSEC | 1 | SNA | |
| Heat sink | DB62-03085A | HEAT SINK | -,A6063,25,15,15,-,-,SSEC | 1 | SNA | |
| IC04 | DB91-00677A | ASSY-MIC | STAR_PJT Large Size Duct | 1 | SA | |

OUTDOOR ASSY PCB SUB-EMI (UH105/140CAV :DB93-05844A)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|---------------------------|--|------|--------|--------|
| VA01 | 1405-000154 | VARISTOR | 460Vdc,2500A,17.5x7.5mm,TP | 1 | SNA | |
| VA02 | 1405-000154 | VARISTOR | 460Vdc,2500A,17.5x7.5mm,TP | 1 | SNA | |
| VA03 | 1405-000154 | VARISTOR | 460Vdc,2500A,17.5x7.5mm,TP | 1 | SNA | |
| VA04 | 1405-000154 | VARISTOR | 460Vdc,2500A,17.5x7.5mm,TP | 1 | SNA | |
| VA05 | 1405-000154 | VARISTOR | 460Vdc,2500A,17.5x7.5mm,TP | 1 | SNA | |
| VA06 | 1405-000154 | VARISTOR | 460Vdc,2500A,17.5x7.5mm,TP | 1 | SNA | |
| R002 | 2003-000835 | R-METAL OXIDE(S) | 470Kohm,5%,2W,AA,TP,4x12mm | 1 | SNA | |
| R003 | 2003-000835 | R-METAL OXIDE(S) | 470Kohm,5%,2W,AA,TP,4x12mm | 1 | SNA | |
| C001 | 2201-000540 | C-CERAMIC,DISC | 4.7NF,20%,2KV,Y5U,BK,12X5MM,10 | 1 | SNA | |
| C002 | 2201-000540 | C-CERAMIC,DISC | 4.7NF,20%,2KV,Y5U,BK,12X5MM,10 | 1 | SNA | |
| C006 | 2201-000154 | C-CERAMIC,DISC | 10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5 | 1 | SNA | |
| C007 | 2201-000154 | C-CERAMIC,DISC | 10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5 | 1 | SNA | |
| C008 | 2301-001314 | C-FILM,LEAD-PPF | 470nF,10%,275V,BK,25x11.5x21mm | 1 | SNA | |
| C009 | 2301-001285 | C-FILM,LEAD-PPF | 680NF,10%,275V,BK,31X11X21MM,27.5 | 1 | SNA | |
| CN01 | 3711-000203 | HEADER-BOARD TO CABLE | 1WALL,2P/3P,1R,7.92mm,STRAIGHT,SN,WHT | 1 | SNA | |
| N2 | 3712-001139 | CONNECTOR-TERMINAL | TAB,MALE,-,6.35X0.8MM | 1 | SNA | |
| L | 3712-001265 | CONNECTOR-TERMINAL | 1PIN,SCREW(M5),8AWG,14*12 | 1 | SNA | |
| L1 | 3712-001265 | CONNECTOR-TERMINAL | 1PIN,SCREW(M5),8AWG,14*12 | 1 | SNA | |
| N | 3712-001265 | CONNECTOR-TERMINAL | 1PIN,SCREW(M5),8AWG,14*12 | 1 | SNA | |
| N1 | 3712-001265 | CONNECTOR-TERMINAL | 1PIN,SCREW(M5),8AWG,14*12 | 1 | SNA | |
| DSA | 4715-001093 | SURGE ABSORBER | 3600V,20%,2000A,-,AXIAL | 1 | SNA | |
| FT00 | DB27-00054A | COIL CHOKE | SSC4823010B,RIXBHF040B1,1.0mH | 1 | SNA | |
| FT01 | DB27-00054A | COIL CHOKE | SSC4823010B,RIXBHF040B1,1.0mH | 1 | SNA | |
| FT02 | DB27-00054A | COIL CHOKE | SSC4823010B,RIXBHF040B1,1.0mH | 1 | SNA | |
| PCB BOARD | DB41-00670A | PCB SUB-EMI | GALAXY 2 PJT,FR-4,2,V2.2,T1.6,-,-,-,-,SSEC | 1 | SNA | |
| | DB93-06338A | ASSY CONNECTOR WIRE-EARTH | UH140EAV,SSEC,UL1015,AWG18,620÷10 | 1 | SNA | |

OUTDOOR ASSY PCB SUB-DISPLAY (UH105/140CAV :DB93-05955A)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|-----------------------|--|------|--------|--------|
| D901 | 0401-000005 | DIODE-SWITCHING | 1N4148,75V,150mA,DO-35,TP | 1 | SNA | |
| D902 | 0401-000005 | DIODE-SWITCHING | 1N4148,75V,150mA,DO-35,TP | 1 | SNA | |
| D903 | 0401-000005 | DIODE-SWITCHING | 1N4148,75V,150mA,DO-35,TP | 1 | SNA | |
| D904 | 0401-000005 | DIODE-SWITCHING | 1N4148,75V,150mA,DO-35,TP | 1 | SNA | |
| K1 | 3404-001220 | SWITCH-TACT | 12V,50mA,160gf,6.1x6.1x5.0mm,SPST | 1 | SNA | |
| K2 | 3404-001220 | SWITCH-TACT | 12V,50mA,160gf,6.1x6.1x5.0mm,SPST | 1 | SNA | |
| K3 | 3404-001220 | SWITCH-TACT | 12V,50mA,160gf,6.1x6.1x5.0mm,SPST | 1 | SNA | |
| K4 | 3404-001220 | SWITCH-TACT | 12V,50mA,160gf,6.1x6.1x5.0mm,SPST | 1 | SNA | |
| CN952 | 3711-004067 | HEADER-BOARD TO CABLE | BOX,4P,1R,2mm,ANGLE,SN,NTR | 1 | SNA | |
| CN951 | 3711-004531 | HEADER-BOARD TO CABLE | BOX,10P,1R,2mm,ANGLE,SN,WHT | 1 | SNA | |
| J1 | 3812-001283 | WIRE-NO SHEATH CU | TCWA,300V,52mm(TAPING),1/0.6mm | 1 | SNA | |
| J2 | 3812-001283 | WIRE-NO SHEATH CU | TCWA,300V,52mm(TAPING),1/0.6mm | 1 | SNA | |
| J3 | 3812-001283 | WIRE-NO SHEATH CU | TCWA,300V,52mm(TAPING),1/0.6mm | 1 | SNA | |
| J4 | 3812-001283 | WIRE-NO SHEATH CU | TCWA,300V,52mm(TAPING),1/0.6mm | 1 | SNA | |
| J5 | 3812-001283 | WIRE-NO SHEATH CU | TCWA,300V,52mm(TAPING),1/0.6mm | 1 | SNA | |
| J6 | 3812-001283 | WIRE-NO SHEATH CU | TCWA,300V,52mm(TAPING),1/0.6mm | 1 | SNA | |
| DIS1 | DB07-00054A | LED DISPLAY | SSD-A3202GS-A13,LED DISPLAY,2 DIGIT | 1 | SNA | |
| DIS2 | DB07-00054A | LED DISPLAY | SSD-A3202GS-A13,LED DISPLAY,2 DIGIT,16 SEGMENT | 1 | SNA | |
| PCB BOARD | DB41-00671A | PCB SUB-DISPLAY | GALAXY 2 PJT,FR-1,1,V1.0,T1.6 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB (UH105/140CAV :DB93-05842A)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|---------------------|---|------|--------|--------|
| D400 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D401 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D402 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D403 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D405 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D406 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D900 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D901 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| BD700 | 0402-000324 | DIODE-BRIDGE | D3SB60,600V,4A,SIP-4,ST | 1 | SNA | |
| D100 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D101 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| D102 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| D103 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| CD500 | 0406-001109 | DIODE-TVS | SAC5.0,7.6/-/-V,500W,DO-15 | 1 | SNA | |
| CD501 | 0406-001109 | DIODE-TVS | SAC5.0,7.6/-/-V,500W,DO-15 | 1 | SNA | |
| Q901 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q902 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q903 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| Q904 | 0504-000001 | TR-DIGITAL | DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP | 1 | SNA | |
| IC200 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| IC600 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| IC901 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| IC902 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| PC100 | 0604-001002 | PHOTO-COUPLER | TR,100-600%,200mW,SOP-4,TP | 1 | SNA | |
| PC500 | 0604-001148 | PHOTO-COUPLER | TR,50-600%,200mW,SMD-4,TP | 1 | SNA | |
| IC501 | 0801-000393 | IC-CMOS LOGIC | 74HC86,OR GATE,SOP,14P,150MIL,QUAD,ST | 1 | SNA | |
| IC500 | 1006-001371 | IC-LINE TRANSCEIVER | ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75,1,REEL | 1 | SNA | |
| IC101 | 1203-000340 | IC-VOL. REFERENCE | 431,TO-92,3P,-,PLASTIC,36V,770 | 1 | SNA | |
| IC300 | 1203-003334 | IC-RESET | S-801,SOT-23,5P,2.9x1.6mm,PLASTIC | 1 | SNA | |
| IC100 | 1203-003527 | IC-PWM CONTROLLER | TOP243,DIP,7P,9.83x6.6mm,PLASTIC | 1 | SNA | |
| NTC700 | 1404-001377 | THERMISTOR-NTC | 10ohm,4A,3100K,20mW/C,-,15,BK | 1 | SNA | |
| R105 | 2003-000855 | R-METAL OXIDE(S) | 47Kohm,5%,3W,AA,TP,6x16mm | 1 | SNA | |
| R101 | 2007-000023 | R-CHIP | 120ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R508 | 2007-000023 | R-CHIP | 120ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R401 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R402 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R404 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R405 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R407 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R408 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R409 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R411 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R412 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R413 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R406 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R410 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R509 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R510 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R511 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R512 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R513 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R514 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R806 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R807 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R808 | 2007-000300 | R-CHIP | 10Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R415 | 2007-000455 | R-CHIP | 18Kohm,1%,1/10W,TP,1608 | 1 | SNA | |
| R418 | 2007-000455 | R-CHIP | 18Kohm,1%,1/10W,TP,1608 | 1 | SNA | |
| R420 | 2007-000455 | R-CHIP | 18Kohm,1%,1/10W,TP,1608 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB (UH105/140CAV :DB93-05842A cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|----------------|------------------------------------|------|--------|--------|
| R421 | 2007-000455 | R-CHIP | 18Kohm,1%,1/10W,TP,1608 | 1 | SNA | |
| R300 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R301 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R302 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R303 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R400 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R403 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R414 | 2007-000613 | R-CHIP | 24Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R416 | 2007-000613 | R-CHIP | 24Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R417 | 2007-000613 | R-CHIP | 24Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R419 | 2007-000613 | R-CHIP | 24Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R102 | 2007-000682 | R-CHIP | 3.3Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R809 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R810 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R811 | 2007-000766 | R-CHIP | 330ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R110 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R111 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R112 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R113 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R304 | 2007-000938 | R-CHIP | 47Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R305 | 2007-000938 | R-CHIP | 47Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R500 | 2007-000944 | R-CHIP | 47Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R501 | 2007-000944 | R-CHIP | 47Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R502 | 2007-000944 | R-CHIP | 47Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R503 | 2007-000944 | R-CHIP | 47Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R504 | 2007-000944 | R-CHIP | 47Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R505 | 2007-000944 | R-CHIP | 47Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R506 | 2007-000944 | R-CHIP | 47Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R507 | 2007-000944 | R-CHIP | 47Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R900 | 2007-000964 | R-CHIP | 5.1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R901 | 2007-000964 | R-CHIP | 5.1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R902 | 2007-000964 | R-CHIP | 5.1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R100 | 2007-001074 | R-CHIP | 6.8ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R910 | 2007-001177 | R-CHIP | 8.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R911 | 2007-001177 | R-CHIP | 8.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R912 | 2007-001177 | R-CHIP | 8.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R903 | 2007-001318 | R-CHIP | 1Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R904 | 2007-001318 | R-CHIP | 1Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R905 | 2007-001318 | R-CHIP | 1Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R906 | 2007-001318 | R-CHIP | 1Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R907 | 2007-001318 | R-CHIP | 1Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R908 | 2007-001318 | R-CHIP | 1Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R909 | 2007-001318 | R-CHIP | 1Kohm,5%,1/4W,TP,3216 | 1 | SNA | |
| R106 | 2007-007459 | R-CHIP | 470KOHM,5%,1/2W,TP,5025 | 1 | SNA | |
| R107 | 2007-007459 | R-CHIP | 470KOHM,5%,1/2W,TP,5025 | 1 | SNA | |
| R108 | 2007-007459 | R-CHIP | 470KOHM,5%,1/2W,TP,5025 | 1 | SNA | |
| R109 | 2007-007459 | R-CHIP | 470KOHM,5%,1/2W,TP,5025 | 1 | SNA | |
| C507 | 2201-000154 | C-CERAMIC,DISC | 10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5 | 1 | SNA | |
| C508 | 2201-000154 | C-CERAMIC,DISC | 10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5 | 1 | SNA | |
| C509 | 2201-000154 | C-CERAMIC,DISC | 10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5 | 1 | SNA | |
| C510 | 2201-000154 | C-CERAMIC,DISC | 10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5 | 1 | SNA | |
| C102 | 2201-000879 | C-CERAMIC,DISC | 2.2NF,10%,1KV,Y5P,BK,10X4MM,10 | 1 | SNA | |
| C105 | 2201-000879 | C-CERAMIC,DISC | 2.2NF,10%,1KV,Y5P,BK,10X4MM,10 | 1 | SNA | |
| C104 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C107 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C200 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C201 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C300 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB (UH105/140CAV :DB93-05842A cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|-----------------------|-------------------------------------|------|--------|--------|
| C301 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C302 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C303 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C304 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C305 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C306 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C307 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C308 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C309 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C400 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C401 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C402 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C403 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C404 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C405 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C406 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C407 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C408 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C409 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C500 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C502 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C503 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C504 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C505 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C600 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C601 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C800 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C801 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C802 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C901 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C902 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C501 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C900 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C903 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C904 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C108 | 2203-000477 | C-CER,CHIP | 1000NF,+80-20%,16V,Y5V,TP,2012 | 1 | SNA | |
| C103 | 2203-001414 | C-CER,CHIP | 330nF,10%,50V,X7R,2012 | 1 | SNA | |
| C700 | 2306-001034 | C-FILM,LEAD-PPF | 100nF,10%,275V,TP,17.5x8.5x15, | 1 | SNA | |
| C702 | 2306-001034 | C-FILM,LEAD-PPF | 100nF,10%,275V,TP,17.5x8.5x15, | 1 | SNA | |
| C109 | 2401-000151 | C-AL | 1000uF,20%,25V,GP,TP,10x20,5 | 1 | SNA | |
| C106 | 2401-002274 | C-AL | 220uF,20%,35V,WT,TP,10x12.5,5 | 1 | SNA | |
| C101 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C100 | 2401-003861 | C-AL | 68UF,20%,400V,WT,TP,18X25MM,7.5 | 1 | SNA | |
| C110 | 2401-003861 | C-AL | 68UF,20%,400V,WT,TP,18X25MM,7.5 | 1 | SNA | |
| X301 | 2802-001179 | RESONATOR-CERAMIC | 4MHZ,0.5%,BK,8X3X5.5MM | 1 | SNA | |
| K1 | 3404-001220 | SWITCH-TACT | 12V,50mA,160gf,6.1x6.1x5.0mm,SPST | 1 | SNA | |
| K2 | 3404-001220 | SWITCH-TACT | 12V,50mA,160gf,6.1x6.1x5.0mm,SPST | 1 | SNA | |
| RY200 | 3501-001154 | RELAY-MINIATURE | 12Vdc,200mW,3000mA,1FormA,10mS,10mS | 1 | SNA | |
| RY501 | 3501-001248 | RELAY-MINIATURE | 12V,-,11.7MA,DPDT,4MS,4MS | 1 | SNA | |
| F702 | 3601-001094 | FUSE-CARTRIDGE | 250V,5A,FAST-ACTING,GLASS,5.2x20mm | 1 | SNA | |
| CN51 | 3711-000176 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU | 1 | SNA | |
| CN50 | 3711-000177 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,3.96MM,STRAIGHT,SN,RED | 1 | SNA | |
| CN80 | 3711-000315 | HEADER-BOARD TO CABLE | 1WALL,4P,1R,7.92MM,STRAIGHT,SN,WHT | 1 | SNA | |
| CN46 | 3711-000939 | HEADER-BOARD TO CABLE | BOX,4P,1R,2.5mm,STRAIGHT,SN,RED | 1 | SNA | |
| CN44 | 3711-000940 | HEADER-BOARD TO CABLE | BOX,4P,1R,2.5mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN60 | 3711-000997 | CONNECTOR-HEADER | BOX,5P,1R,2.5mm,STRAIGHT,SN,BLU | 1 | SNA | |
| CN23 | 3711-003406 | HEADER-BOARD TO CABLE | 1WALL,2P,1R,7.92MM,STRAIGHT,SN,YEL | 1 | SNA | |
| CN31 | 3711-003873 | HEADER-BOARD TO CABLE | BOX,7P,1R,2mm,STRAIGHT,SN,NTR | 1 | SNA | |

OUTDOOR ASSY MAIN PCB (UH105/140CAV :DB93-05842A cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|---------------------------|---|------|--------|--------|
| CN91 | 3711-004182 | HEADER-BOARD TO CABLE | BOX,10P,1R,2MM,STRAIGHT,SN,NTR | 1 | SNA | |
| CN90 | 3711-004379 | HEADER-BOARD TO CABLE | BOX,4P,1R,2mm,STRAIGHT,SN,NTR | 1 | SNA | |
| CN92 | 3711-004484 | HEADER-BOARD TO CABLE | BOX,5P,1R,2mm,STRAIGHT,SN,NTR | 1 | SNA | |
| CN30 | 3711-005716 | HEADER-BOARD TO CABLE | BOX,10P,1R,2mm,STRAIGHT,SN,BLK | 1 | SNA | |
| T100 | DB26-00073A | TRANS FBT-PT60 | PT60,PT60,700uH,EI2218B,PL-5 or Equiv. | 1 | | |
| T700 | DB27-00033A | COIL CHOKE | FILTER,S50,5A,14mH | 1 | SNA | |
| PCB BOARD | DB41-00672A | PCB MAIN-OUT | GALAXY 2 PJT,FR-4,2,V5.2,T1.6,195*130 | 1 | SNA | |
| F702 | DB61-00924A | HOLDER-FUSE | -,FH-51B,-,-,-,-,SSEC | 1 | SNA | |
| IC301 | DB91-00582A | ASSY-MIC | GALAXY_2 INVETER OUT MAIN MICOM | 1 | SNA | |
| IC301 | DB09-00338A | IC MICOM | MB90F823,-,80 P,5 V,24 MHz,Flash Memory | 1 | SNA | |
| | DB93-06342A | ASSY CONNECTOR WIRE-EARTH | UH140EAV,SSEC,UL1015,AWG16 | 1 | SNA | |
| R103 | DB98-20665A | ASSY-RESISTOR | KFR-35(25)GW/GPI,1.8k F 1608 | 1 | SNA | |
| R104 | DB98-20665A | ASSY-RESISTOR | KFR-35(25)GW/GPI,1.8k F 1608 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH140CAV :DB93-05843A)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|---------------------|---|------|--------|--------|
| D100 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D700 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D701 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D702 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D703 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D102 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D401 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D402 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D403 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D103 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| D104 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| D105 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| D106 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| BD01 | 0402-001771 | DIODE-BRIDGE | D50XB80,800V,50A,SIP-4,TP | 1 | SNA | |
| D101 | 0402-001772 | DIODE-RECTIFIER | RURG5060,600V,50A,TO-247,TP | 1 | SNA | |
| ZD300 | 0403-000258 | DIODE-ZENER | BZX84C5V6,5.2-6V,225mW,SOT-23,TP | 1 | SNA | |
| ZD301 | 0403-000258 | DIODE-ZENER | BZX84C5V6,5.2-6V,225mW,SOT-23,TP | 1 | SNA | |
| ZD700 | 0403-000258 | DIODE-ZENER | BZX84C5V6,5.2-6V,225mW,SOT-23,TP | 1 | SNA | |
| ZD701 | 0403-000258 | DIODE-ZENER | BZX84C5V6,5.2-6V,225mW,SOT-23,TP | 1 | SNA | |
| Q401 | 0501-002113 | TR-SMALL SIGNAL | BC847B,NPN,330mW,SOT-23,TP,200 | 1 | SNA | |
| Q403 | 0501-002113 | TR-SMALL SIGNAL | BC847B,NPN,330mW,SOT-23,TP,200 | 1 | SNA | |
| IC200 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| LED202 | 0601-001816 | LED | SMD,Y-GRN,1.6X0.8X0.55MM,570NM,1.6X0.8X0.55MM | 1 | SNA | |
| LED203 | 0601-001954 | LED | SMD,YEL,1.6X0.8X0.8MM,587NM,1.6X0.8X0.8MM | 1 | SNA | |
| LED201 | 0601-002345 | LED | SMD,RED,1.6x0.8x0.55mm,660nm,1.6x0.8x0.55mm | 1 | SNA | |
| IC501 | 0604-001002 | PHOTO-COUPLER | TR,100-600%,200mW,SOP-4,TP | 1 | SNA | |
| IC502 | 0604-001002 | PHOTO-COUPLER | TR,100-600%,200mW,SOP-4,TP | 1 | SNA | |
| IC12 | 0604-001172 | PHOTO-COUPLER | TR,100-300,200mW,SOP,TP | 1 | SA | |
| IC16 | 1203-000274 | IC-POSIFIXED REG. | 7805,TO-220,3P,-,PLASTIC,4.8/5 | 1 | SNA | |
| IC19 | 1203-000274 | IC-POSIFIXED REG. | 7805,TO-220,3P,-,PLASTIC,4.8/5 | 1 | SNA | |
| IC13 | 1203-002948 | IC-POSILADJUST REG. | TL431ACD,SOP,8P,4.9X3.9MM,PLASTIC | 1 | SNA | |
| IC11 | 1203-003527 | IC-PWM CONTROLLER | TOP243,DIP,7P,9.83x6.6mm,PLASTIC | 1 | SNA | |
| R107 | 2003-000708 | R-METAL OXIDE(S) | 47ohm,5%,1W,AA,TP,3.3x9mm | 1 | SNA | |
| R101 | 2003-000855 | R-METAL OXIDE(S) | 47Kohm,5%,3W,AA,TP,6x16mm | 1 | SNA | |
| R001 | 2006-001080 | R-CEMENT(S) | 200ohm,5%,5W,CB,BK,13x9x25.5mm | 1 | SNA | |
| R901 | 2006-001164 | R-CEMENT | 0.02ohm,5%,5W,CB,BK,26x5x17mm | 1 | SNA | |
| R902 | 2006-001164 | R-CEMENT | 0.02ohm,5%,5W,CB,BK,26x5x17mm | 1 | SNA | |
| R440 | 2006-001165 | R-CEMENT | 0.007ohm,5%,20W,CB,BK,23x13x38mm | 1 | SNA | |
| R821 | 2007-000029 | R-CHIP | 0ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R822 | 2007-000029 | R-CHIP | 0ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R321 | 2007-000070 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R322 | 2007-000070 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R326 | 2007-000070 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R361 | 2007-000074 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R312 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R346 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R347 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R348 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R432 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R434 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R500 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R502 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R323 | 2007-000077 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R342 | 2007-000077 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R349 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R422 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH140CAV :DB93-05843A cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|-------------|--------------------------|------|--------|--------|
| R423 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R428 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R472 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| RA | 2007-000080 | R-CHIP | 2Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R315 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R324 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R325 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R327 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R328 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R407 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R301 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R302 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R309 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R311 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R313 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R316 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R317 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R318 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R329 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R330 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R331 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R332 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R333 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R334 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R335 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R336 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R337 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R344 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R345 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R400 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R409 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R421 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R424 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R426 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R431 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R433 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R435 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R805 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R906 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R907 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R408 | 2007-000113 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R410 | 2007-000113 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R429 | 2007-000113 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R814 | 2007-000221 | R-CHIP | 1.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R815 | 2007-000221 | R-CHIP | 1.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R106 | 2007-000263 | R-CHIP | 1.82Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R401 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R402 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R403 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R404 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R405 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R406 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R115 | 2007-000385 | R-CHIP | 14.3Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R501 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R503 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R103 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R820 | 2007-000477 | R-CHIP | 1Mohm,5%,1/8W,TP,2012 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH140CAV :DB93-05843A cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|----------------|--------------------------------|------|--------|--------|
| R201 | 2007-000493 | R-CHIP | 2.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R202 | 2007-000493 | R-CHIP | 2.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R203 | 2007-000493 | R-CHIP | 2.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R722 | 2007-000613 | R-CHIP | 24Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R104 | 2007-000686 | R-CHIP | 3.3Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R721 | 2007-000763 | R-CHIP | 330ohm,1%,1/10W,TP,1608 | 1 | SNA | |
| R112 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R113 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R114 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R412 | 2007-000929 | R-CHIP | 470ohm,1%,1/10W,TP,1608 | 1 | SNA | |
| R425 | 2007-001067 | R-CHIP | 6.8Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R430 | 2007-001067 | R-CHIP | 6.8Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R102 | 2007-001074 | R-CHIP | 6.8ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R105 | 2007-001222 | R-CHIP | 9.09Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R905 | 2007-002667 | R-CHIP | 90.9Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R116 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| R117 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| R118 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| R903 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| R904 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| C105 | 2201-000322 | C-CERAMIC,DISC | 2.2NF,10%,2KV,Y5P,TP,13X5MM,10 | 1 | SNA | |
| C106 | 2201-000322 | C-CERAMIC,DISC | 2.2NF,10%,2KV,Y5P,TP,13X5MM,10 | 1 | SNA | |
| C109 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C112 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C116 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C117 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C121 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C824 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C825 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C200 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C301 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C302 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C311 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C312 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C313 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C323 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C324 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C327 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C361 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C404 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C406 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C408 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C410 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C418 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C425 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C426 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C427 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C428 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C429 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C430 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C431 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C713 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C714 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C721 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C906 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C907 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C411 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH140CAV :DB93-05843A cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|-------------------|-------------------------------------|------|--------|--------|
| C412 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C413 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C414 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C415 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C416 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C328 | 2203-000257 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | 1 | SNA | |
| C407 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C409 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C500 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C501 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C502 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C813 | 2203-000444 | C-CER,CHIP | 1nF,10%,50V,X7R,2012 | 1 | SNA | |
| C108 | 2203-001414 | C-CER,CHIP | 330nF,10%,50V,X7R,2012 | 1 | SNA | |
| C308 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C318 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C319 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C320 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C321 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C419 | 2203-002398 | C-CER,CHIP | 22nF,10%,50V,X7R,1608 | 1 | SNA | |
| C420 | 2203-002398 | C-CER,CHIP | 22nF,10%,50V,X7R,1608 | 1 | SNA | |
| C801 | 2203-002398 | C-CER,CHIP | 22nF,10%,50V,X7R,1608 | 1 | SNA | |
| C306 | 2203-005249 | C-CER,CHIP | 100nF,10%,50V,X7R,1608 | 1 | SNA | |
| C316 | 2203-005249 | C-CER,CHIP | 100nF,10%,50V,X7R,1608 | 1 | SNA | |
| C113 | 2203-005261 | C-CER,CHIP | 1000nF,10%,25V,X7R,3216 | 1 | SNA | |
| C122 | 2203-005261 | C-CER,CHIP | 1000nF,10%,25V,X7R,3216 | 1 | SNA | |
| C400 | 2203-006104 | C-CER,CHIP | 1000nF,10%,50V,X7R,3225 | 1 | SNA | |
| C424 | 2203-006104 | C-CER,CHIP | 1000nF,10%,50V,X7R,3225 | 1 | SNA | |
| C008 | 2301-001703 | C-FILM,LEAD | 1000nF,5%,630V,BK,30X23X15,- | 1 | SNA | |
| C810 | 2301-001703 | C-FILM,LEAD | 1000nF,5%,630V,BK,30X23X15,- | 1 | SNA | |
| C422 | 2306-000123 | C-FILM,LEAD-PPF | 100nF,5%,630V,BK,26x16.5x8.5,2 | 1 | SNA | |
| C809 | 2306-000123 | C-FILM,LEAD-PPF | 100nF,5%,630V,BK,26x16.5x8.5,2 | 1 | SNA | |
| C904 | 2401-000027 | C-AL | 4.7uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C123 | 2401-000303 | C-AL | 100uF,20%,25V,GP,TP,6.3x11,5 | 1 | SNA | |
| C124 | 2401-000470 | C-AL | 10uF,20%,450V,GP,TP,13x20mm,5m | 1 | SNA | |
| C300 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C305 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C309 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C315 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C317 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C322 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C325 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C402 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C405 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C110 | 2401-000832 | C-AL | 220uF,20%,25V,GP,TP,8x11.5,5 | 1 | SNA | |
| C114 | 2401-000832 | C-AL | 220uF,20%,25V,GP,TP,8x11.5,5 | 1 | SNA | |
| C119 | 2401-000832 | C-AL | 220uF,20%,25V,GP,TP,8x11.5,5 | 1 | SNA | |
| C107 | 2401-001552 | C-AL | 47uF,20%,35V,GP,TP,6.3x11,2.5 | 1 | SNA | |
| C421 | 2401-002274 | C-AL | 220uF,20%,35V,WT,TP,10x12.5,5 | 1 | SNA | |
| C118 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C401 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C403 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C423 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C905 | 2401-002400 | C-AL | 3.3UF,20%,50V,WT,TP,5X11,5 | 1 | SNA | |
| C101 | 2401-004278 | C-AL | 560uF,+20%,400V,LGU,-,50*35,10mm | 1 | SNA | |
| C102 | 2401-004278 | C-AL | 560uF,+20%,400V,LGU,-,50*35,10mm | 1 | SNA | |
| C103 | 2401-004278 | C-AL | 560uF,+20%,400V,LGU,-,50*35,10mm | 1 | SNA | |
| Y30 | 2802-001198 | RESONATOR-CERAMIC | 10MHZ,0.5%,BK,8X3X5.5MM | 1 | SNA | |
| RY01 | 3501-001154 | RELAY-MINIATURE | 12Vdc,200mW,3000mA,1FormA,10mS,10mS | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH140CAV :DB93-05843A cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|-----------------------------|--|------|--------|--------|
| RY02 | 3501-001154 | RELAY-MINIATURE | 12Vdc,200mW,3000mA,1FormA,10mS,10mS | 1 | SNA | |
| CN41 | 3711-000319 | CONNECTOR-HEADER | 1WALL,7P,1R,3.96mm,STRAIGHT,SN,BLU | 1 | SNA | |
| CN40 | 3711-000321 | HEADER-BOARD TO CABLE | 1WALL,7P,1R,3.96MM,STRAIGHT,SN,WHT | 1 | SNA | |
| CN31 | 3711-003843 | HEADER-BOARD TO CABLE | BOX,8P,1R,2mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN72 | 3711-003942 | HEADER-BOARD TO CABLE | BOX,2P,1R,2mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN70 | 3711-004379 | HEADER-BOARD TO CABLE | BOX,4P,1R,2mm,STRAIGHT,SN,NTR | 1 | SNA | |
| CN71 | 3711-005206 | HEADER-BOARD TO CABLE | BOX,3P,1R,2MM,STRAIGHT,SN,BLU | 1 | SNA | |
| CN30 | 3711-005716 | HEADER-BOARD TO CABLE | BOX,10P,1R,2mm,STRAIGHT,SN,BLK | 1 | SNA | |
| CN22 | 3711-006053 | HEADER-BOARD TO BOARD | BOX,2P,1R,7.92mm,STRAIGHT,SN,BLU | 1 | SNA | |
| Q400 | DB13-00003A | IC DRIVER GATE | -SOT-23,-,1P,1P,0.2mm,2.93x1.3mm | 1 | SNA | |
| Q402 | DB13-00003A | IC DRIVER GATE | -SOT-23,-,1P,1P,0.2mm,2.93x1.3mm | 1 | SNA | |
| PT02 | DB26-00075A | TRANS SWITCHING | PT-50,AQV18FA,-,90~275V,FERRITE | 1 | SNA | |
| IC700 | DB32-00184A | SENSOR MAG-CT SENSOR | ACS754LCB-050-PFF,RIBBHF040B1 | 1 | SNA | |
| IC701 | DB32-00184A | SENSOR MAG-CT SENSOR | ACS754LCB-050-PFF,RIBBHF040B1 | 1 | SNA | |
| PCB BOARD | DB41-00669A | PCB MAIN-INVERTER | GALAXY 2 PJT,FR-4,2,V1.1,T1.6,SSEC | 1 | SNA | |
| J101 | DB47-90005A | JUMPER WIRE | TA0.6PI/52MM,P0509-400-108,-,- | 1 | SNA | |
| IC303 | DB91-00565A | ASSY-EEPROM | UH140EAV1,93LC66, SSEC | 1 | SNA | |
| IC303 | 1103-001038 | IC-EEPROM | 93LC66,4KBIT,256X16BIT,SOP,8P,5X4MM | 1 | SNA | |
| IC301 | DB91-00574A | ASSY-MIC | GALAXY2 OUTDOOR Inv Micom,STM-0753-OS | 1 | SNA | |
| IC301 | DB09-00517A | IC MICOM | MN103FA7K,-,80P,+5V,10 MHz,Flash Memory | 1 | SNA | |
| N1 | DB93-06328B | ASSY CONNECTOR WIRE-POWER | UH140EAV,SSEC,UL1015,AWG12 | 1 | SNA | |
| U,V,W | DB93-06343A | ASSY CONNECTOR WIRE-COMP | UH140EAV,SSEC,UL1015,AWG12,120÷10,BLK,42816-03 | 1 | SNA | |
| PEACTOR01,02 | DB93-06348A | ASSY CONNECTOR WIRE-REACTOR | UH140EAV,SSEC,UL1015,AWG12,500÷10,BLK,42816-2 | 1 | SNA | |
| L,N | DB93-06392A | ASSY CONNECTOR WIRE-POWER | UH140EAV,SSEC,UL1015,AWG18/12 | 1 | SNA | |
| | DB93-06393A | ASSY CONNECTOR WIRE-JUMP | UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.6S | 1 | SNA | |
| | DB93-06393B | ASSY CONNECTOR WIRE-JUMP | UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.6S | 1 | SNA | |
| IPM | DB95-00630A | ASSY-IPM | MH080FXEA4,PS21869-P | 1 | SNA | |
| PFC-HIC | DB95-01471A | ASSY-PFC MODULE | UH140EAV,PFC MODULE | 1 | SNA | |
| Q903 | DB98-16589A | ASSY-IGBT | | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH105CAV :DB93-05843B)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|---------------------|---|------|--------|--------|
| D100 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D700 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D701 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D702 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D703 | 0401-000133 | DIODE-SWITCHING | RLS4148,75V,150mA,LL-34,TP | 1 | SNA | |
| D102 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D401 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D402 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D403 | 0402-000351 | DIODE-RECTIFIER | 1N4937,600V,1A,DO-41,TP | 1 | SNA | |
| D103 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| D104 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| D105 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| D106 | 0402-001427 | DIODE-RECTIFIER | ES1D,200V,1A,DO-214AC,TP | 1 | SNA | |
| BD01 | 0402-001771 | DIODE-BRIDGE | D50XB80,800V,50A,SIP-4,TP | 1 | SNA | |
| D101 | 0402-001772 | DIODE-RECTIFIER | RURG5060,600V,50A,TO-247,TP | 1 | SNA | |
| ZD300 | 0403-000258 | DIODE-ZENER | BZX84C5V6,5.2-6V,225mW,SOT-23,TP | 1 | SNA | |
| ZD301 | 0403-000258 | DIODE-ZENER | BZX84C5V6,5.2-6V,225mW,SOT-23,TP | 1 | SNA | |
| ZD700 | 0403-000258 | DIODE-ZENER | BZX84C5V6,5.2-6V,225mW,SOT-23,TP | 1 | SNA | |
| ZD701 | 0403-000258 | DIODE-ZENER | BZX84C5V6,5.2-6V,225mW,SOT-23,TP | 1 | SNA | |
| Q401 | 0501-002113 | TR-SMALL SIGNAL | BC847B,NPN,330mW,SOT-23,TP,200 | 1 | SNA | |
| Q403 | 0501-002113 | TR-SMALL SIGNAL | BC847B,NPN,330mW,SOT-23,TP,200 | 1 | SNA | |
| IC200 | 0506-000175 | TR-ARRAY | 2003,NPN,7,1W,SOP-16,ST,1000 | 1 | SNA | |
| LED202 | 0601-001816 | LED | SMD,Y-GRN,1.6X0.8X0.55MM,570NM,1.6X0.8X0.55MM | 1 | SNA | |
| LED203 | 0601-001954 | LED | SMD,YEL,1.6X0.8X0.8MM,587NM,1.6X0.8X0.8MM | 1 | SNA | |
| LED201 | 0601-002345 | LED | SMD,RED,1.6x0.8x0.55mm,660nm,1.6x0.8x0.55mm | 1 | SNA | |
| IC501 | 0604-001002 | PHOTO-COUPLER | TR,100-600%,200mW,SOP-4,TP | 1 | SNA | |
| IC502 | 0604-001002 | PHOTO-COUPLER | TR,100-600%,200mW,SOP-4,TP | 1 | SNA | |
| IC12 | 0604-001172 | PHOTO-COUPLER | TR,100-300,200mW,SOP,TP | 1 | SA | |
| IC16 | 1203-000274 | IC-POSI.FIXED REG. | 7805,TO-220,3P,-,PLASTIC,4,8/5 | 1 | SNA | |
| IC19 | 1203-000274 | IC-POSI.FIXED REG. | 7805,TO-220,3P,-,PLASTIC,4,8/5 | 1 | SNA | |
| IC13 | 1203-002948 | IC-POSI.ADJUST REG. | TL431ACD,SOP,8P,4.9X3.9MM,PLASTIC | 1 | SNA | |
| IC11 | 1203-003527 | IC-PWM CONTROLLER | TOP243,DIP,7P,9.83x6.6mm,PLASTIC | 1 | SNA | |
| R107 | 2003-000708 | R-METAL OXIDE(S) | 47ohm,5%,1W,AA,TP,3.3x9mm | 1 | SNA | |
| R101 | 2003-000855 | R-METAL OXIDE(S) | 47Kohm,5%,3W,AA,TP,6x16mm | 1 | SNA | |
| R001 | 2006-001080 | R-CEMENT(S) | 200ohm,5%,5W,CB,BK,13x9x25.5mm | 1 | SNA | |
| R901 | 2006-001164 | R-CEMENT | 0.02ohm,5%,5W,CB,BK,26x5x17mm | 1 | SNA | |
| R902 | 2006-001164 | R-CEMENT | 0.02ohm,5%,5W,CB,BK,26x5x17mm | 1 | SNA | |
| R440 | 2006-001165 | R-CEMENT | 0.007ohm,5%,20W,CB,BK,23x13x38mm | 1 | SNA | |
| R821 | 2007-000029 | R-CHIP | 0ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R822 | 2007-000029 | R-CHIP | 0ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R321 | 2007-000070 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R322 | 2007-000070 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R326 | 2007-000070 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R361 | 2007-000074 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R312 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R346 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R347 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R348 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R432 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R434 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R500 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R502 | 2007-000076 | R-CHIP | 330ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R323 | 2007-000077 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R342 | 2007-000077 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R349 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R422 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH105CAV :DB93-05843B cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|-------------|--------------------------|------|--------|--------|
| R423 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R428 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R472 | 2007-000078 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| RA | 2007-000080 | R-CHIP | 2Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R315 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R324 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R325 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R327 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R328 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R407 | 2007-000084 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R301 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R302 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R309 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R311 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R313 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R316 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R317 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R318 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R329 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R330 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R331 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R332 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R333 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R334 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R335 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R336 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R337 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R344 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R345 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R400 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R409 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R421 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R424 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R426 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R431 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R433 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R435 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R805 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R906 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R907 | 2007-000090 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R408 | 2007-000113 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R410 | 2007-000113 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R429 | 2007-000113 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | 1 | SNA | |
| R814 | 2007-000221 | R-CHIP | 1.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R815 | 2007-000221 | R-CHIP | 1.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R106 | 2007-000263 | R-CHIP | 1.82Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R401 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R402 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R403 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R404 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R405 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R406 | 2007-000290 | R-CHIP | 100ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R115 | 2007-000385 | R-CHIP | 14.3Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R501 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R503 | 2007-000465 | R-CHIP | 1Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R103 | 2007-000468 | R-CHIP | 1Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R820 | 2007-000477 | R-CHIP | 1Mohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R201 | 2007-000493 | R-CHIP | 2.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH105CAV :DB93-05843B cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|----------------|--------------------------------|------|--------|--------|
| R202 | 2007-000493 | R-CHIP | 2.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R203 | 2007-000493 | R-CHIP | 2.2Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R722 | 2007-000613 | R-CHIP | 24Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R104 | 2007-000686 | R-CHIP | 3.3Kohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R721 | 2007-000763 | R-CHIP | 330ohm,1%,1/10W,TP,1608 | 1 | SNA | |
| R112 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R113 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R114 | 2007-000924 | R-CHIP | 470Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R412 | 2007-000929 | R-CHIP | 470ohm,1%,1/10W,TP,1608 | 1 | SNA | |
| R425 | 2007-001067 | R-CHIP | 6.8Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R430 | 2007-001067 | R-CHIP | 6.8Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R102 | 2007-001074 | R-CHIP | 6.8ohm,5%,1/8W,TP,2012 | 1 | SNA | |
| R105 | 2007-001222 | R-CHIP | 9.09Kohm,1%,1/8W,TP,2012 | 1 | SNA | |
| R905 | 2007-002667 | R-CHIP | 90.9Kohm,1%,1/4W,TP,3216 | 1 | SNA | |
| R116 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| R117 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| R118 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| R903 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| R904 | 2007-008261 | R-CHIP | 150KOHM,1%,1/2W,TP,5025 | 1 | SNA | |
| C105 | 2201-000322 | C-CERAMIC,DISC | 2.2NF,10%,2KV,Y5P,TP,13X5MM,10 | 1 | SNA | |
| C106 | 2201-000322 | C-CERAMIC,DISC | 2.2NF,10%,2KV,Y5P,TP,13X5MM,10 | 1 | SNA | |
| C109 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C112 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C116 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C117 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C121 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C824 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C825 | 2203-000192 | C-CER,CHIP | 100nF,+80-20%,50V,Y5V,2012 | 1 | SNA | |
| C200 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C301 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C302 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C311 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C312 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C313 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C323 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C324 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C327 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C361 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C404 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C406 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C408 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C410 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C418 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C425 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C426 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C427 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C428 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C429 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C430 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C431 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C713 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C714 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C721 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C906 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C907 | 2203-000206 | C-CER,CHIP | 100nF,10%,50V,X7R,2012 | 1 | SNA | |
| C411 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C412 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C413 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH105CAV :DB93-05843B cont.)

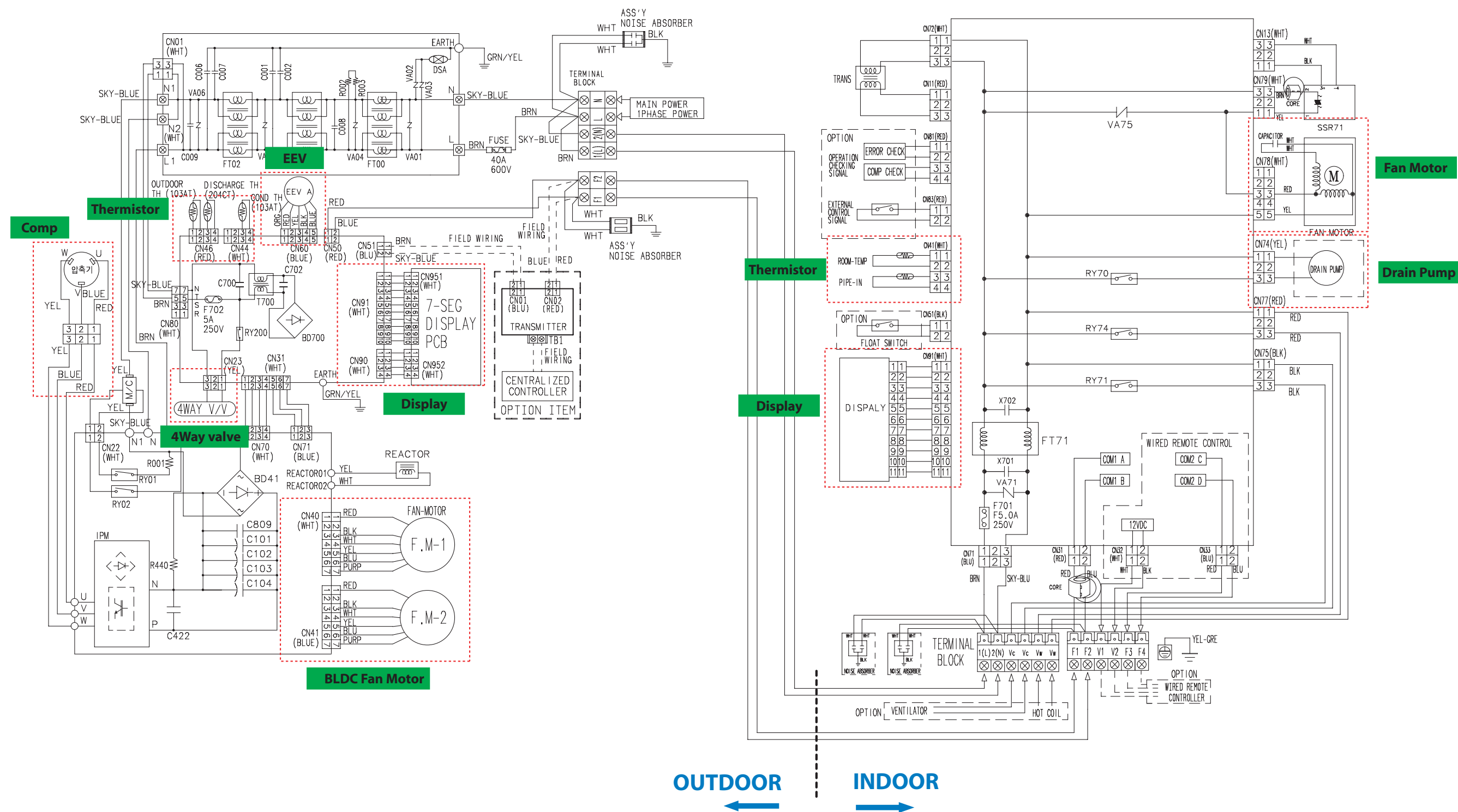
| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|-------------------|-------------------------------------|------|--------|--------|
| C414 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C415 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C416 | 2203-000239 | C-CER,CHIP | 0.1nF,5%,50V,C0G,2012 | 1 | SNA | |
| C328 | 2203-000257 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | 1 | SNA | |
| C407 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C409 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C500 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C501 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C502 | 2203-000260 | C-CER,CHIP | 10nF,10%,50V,X7R,2012 | 1 | SNA | |
| C813 | 2203-000444 | C-CER,CHIP | 1nF,10%,50V,X7R,2012 | 1 | SNA | |
| C108 | 2203-001414 | C-CER,CHIP | 330nF,10%,50V,X7R,2012 | 1 | SNA | |
| C308 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C318 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C319 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C320 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C321 | 2203-002002 | C-CER,CHIP | 33pF,5%,50V,NPO,BK,1608,- | 1 | SNA | |
| C419 | 2203-002398 | C-CER,CHIP | 22nF,10%,50V,X7R,1608 | 1 | SNA | |
| C420 | 2203-002398 | C-CER,CHIP | 22nF,10%,50V,X7R,1608 | 1 | SNA | |
| C801 | 2203-002398 | C-CER,CHIP | 22nF,10%,50V,X7R,1608 | 1 | SNA | |
| C306 | 2203-005249 | C-CER,CHIP | 100nF,10%,50V,X7R,1608 | 1 | SNA | |
| C316 | 2203-005249 | C-CER,CHIP | 100nF,10%,50V,X7R,1608 | 1 | SNA | |
| C113 | 2203-005261 | C-CER,CHIP | 1000nF,10%,25V,X7R,3216 | 1 | SNA | |
| C122 | 2203-005261 | C-CER,CHIP | 1000nF,10%,25V,X7R,3216 | 1 | SNA | |
| C400 | 2203-006104 | C-CER,CHIP | 1000nF,10%,50V,X7R,3225 | 1 | SNA | |
| C424 | 2203-006104 | C-CER,CHIP | 1000nF,10%,50V,X7R,3225 | 1 | SNA | |
| C008 | 2301-001703 | C-FILM,LEAD | 1000nF,5%,630V,BK,30X23X15,- | 1 | SNA | |
| C810 | 2301-001703 | C-FILM,LEAD | 1000nF,5%,630V,BK,30X23X15,- | 1 | SNA | |
| C422 | 2306-000123 | C-FILM,LEAD-PPF | 100nF,5%,630V,BK,26x16.5x8.5,2 | 1 | SNA | |
| C809 | 2306-000123 | C-FILM,LEAD-PPF | 100nF,5%,630V,BK,26x16.5x8.5,2 | 1 | SNA | |
| C904 | 2401-000027 | C-AL | 4.7uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C123 | 2401-000303 | C-AL | 100uF,20%,25V,GP,TP,6.3x11,5 | 1 | SNA | |
| C124 | 2401-000470 | C-AL | 10uF,20%,450V,GP,TP,13x20mm,5m | 1 | SNA | |
| C300 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C305 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C309 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C315 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C317 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C322 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C325 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C402 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C405 | 2401-000480 | C-AL | 10uF,20%,50V,GP,TP,5x11,5 | 1 | SNA | |
| C110 | 2401-000832 | C-AL | 220uF,20%,25V,GP,TP,8x11.5,5 | 1 | SNA | |
| C114 | 2401-000832 | C-AL | 220uF,20%,25V,GP,TP,8x11.5,5 | 1 | SNA | |
| C119 | 2401-000832 | C-AL | 220uF,20%,25V,GP,TP,8x11.5,5 | 1 | SNA | |
| C107 | 2401-001552 | C-AL | 47uF,20%,35V,GP,TP,6.3x11,2,5 | 1 | SNA | |
| C421 | 2401-002274 | C-AL | 220uF,20%,35V,WT,TP,10x12.5,5 | 1 | SNA | |
| C118 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C401 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C403 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C423 | 2401-002300 | C-AL | 47uF,20%,50V,GP,TP,6.3x11,5mm | 1 | SNA | |
| C905 | 2401-002400 | C-AL | 3.3UF,20%,50V,WT,TP,5X11,5 | 1 | SNA | |
| C101 | 2401-004278 | C-AL | 560uF,+/-20%,400V,LGU,-,50*35,10mm | 1 | SNA | |
| C102 | 2401-004278 | C-AL | 560uF,+/-20%,400V,LGU,-,50*35,10mm | 1 | SNA | |
| C103 | 2401-004278 | C-AL | 560uF,+/-20%,400V,LGU,-,50*35,10mm | 1 | SNA | |
| Y30 | 2802-001198 | RESONATOR-CERAMIC | 10MHZ,0.5%,BK,8X3X5.5MM | 1 | SNA | |
| RY01 | 3501-001154 | RELAY-MINIATURE | 12Vdc,200mW,3000mA,1FormA,10mS,10mS | 1 | SNA | |
| RY02 | 3501-001154 | RELAY-MINIATURE | 12Vdc,200mW,3000mA,1FormA,10mS,10mS | 1 | SNA | |
| CN41 | 3711-000319 | CONNECTOR-HEADER | 1WALL,7P,1R,3.96mm,STRAIGHT,SN,BLU | 1 | SNA | |

OUTDOOR ASSY MAIN PCB -INVERTER(UH105CAV :DB93-05843B cont.)

| Location No. | Code No. | Description | Specification | Q'ty | SA/SNA | Remark |
|--------------|-------------|-----------------------------|--|------|--------|--------|
| CN40 | 3711-000321 | HEADER-BOARD TO CABLE | 1WALL,7P,1R,3.96MM,STRAIGHT,SN,WHT | 1 | SNA | |
| CN31 | 3711-003843 | HEADER-BOARD TO CABLE | BOX,8P,1R,2mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN72 | 3711-003942 | HEADER-BOARD TO CABLE | BOX,2P,1R,2mm,STRAIGHT,SN,WHT | 1 | SNA | |
| CN70 | 3711-004379 | HEADER-BOARD TO CABLE | BOX,4P,1R,2mm,STRAIGHT,SN,NTR | 1 | SNA | |
| CN71 | 3711-005206 | HEADER-BOARD TO CABLE | BOX,3P,1R,2MM,STRAIGHT,SN,BLU | 1 | SNA | |
| CN30 | 3711-005716 | HEADER-BOARD TO CABLE | BOX,10P,1R,2mm,STRAIGHT,SN,BLK | 1 | SNA | |
| CN22 | 3711-006053 | HEADER-BOARD TO BOARD | BOX,2P,1R,7.92mm,STRAIGHT,SN,BLU | 1 | SNA | |
| Q400 | DB13-00003A | IC DRIVER GATE | -,SOT-23,-,1P,1P,0.2mm,2.93x1.3mm | 1 | SNA | |
| Q402 | DB13-00003A | IC DRIVER GATE | -,SOT-23,-,1P,1P,0.2mm,2.93x1.3mm | 1 | SNA | |
| PT02 | DB26-00075A | TRANS SWITCHING | PT-50,AQV18FA,-,90~275V,FERRITE | 1 | SNA | |
| IC700 | DB32-00184A | SENSOR MAG-CT SENSOR | ACS754LCB-050-PFF,RIBHF040B1,50A | 1 | SNA | |
| IC701 | DB32-00184A | SENSOR MAG-CT SENSOR | ACS754LCB-050-PFF,RIBHF040B1 | 1 | SNA | |
| PCB BOARD | DB41-00669A | PCB MAIN-INVERTER | GALAXY 2 PJT,FR-4,2,V1.1,T1.6,SSEC | 1 | SNA | |
| J101 | DB47-90005A | JUMPER WIRE | TA0.6PI/52MM,P0509-400-108,-,- | 1 | SNA | |
| IC303 | DB91-00565B | ASSY-EEPROM | UH105EAV1,93LC66,SSEC | 1 | SNA | |
| IC303 | 1103-001038 | IC-EEPROM | 93LC66,4KBIT,256X16BIT,SOP,8P,5X4MM | 1 | SNA | |
| IC301 | DB91-00574A | ASSY-MIC | GALAXY2 OUTDOOR Inv Micom,STM-0753-OS | 1 | SNA | |
| IC301 | DB09-00517A | IC MICOM | MN103FA7K,-,80P,+5V,10 MHz,Flash Memory | 1 | SNA | |
| N1 | DB93-06328B | ASSY CONNECTOR WIRE-POWER | UH140EAV,SSEC,UL1015,AWG12 | 1 | SNA | |
| U,V,W | DB93-06343A | ASSY CONNECTOR WIRE-COMP | UH140EAV,SSEC,UL1015,AWG12,120÷10,BLK,42816-03 | 1 | SNA | |
| PEACTOR01,02 | DB93-06348A | ASSY CONNECTOR WIRE-REACTOR | UH140EAV,SSEC,UL1015,AWG12,500÷10,BLK,42816-2 | 1 | SNA | |
| L,N | DB93-06392A | ASSY CONNECTOR WIRE-POWER | UH140EAV,SSEC,UL1015,AWG18/12 | 1 | SNA | |
| | DB93-06393A | ASSY CONNECTOR WIRE-JUMP | UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.65 | 1 | SNA | |
| | DB93-06393B | ASSY CONNECTOR WIRE-JUMP | UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.65 | 1 | SNA | |
| IPM | DB95-00630A | ASSY-IPM | MH080FXEA4,PS21869-P | 1 | SNA | |
| PFC-HIC | DB95-01471A | ASSY-PFC MODULE | UH140EAV,PFC MODULE | 1 | SNA | |
| Q903 | DB98-16589A | ASSY-IGBT | | 1 | SNA | |

MEMO

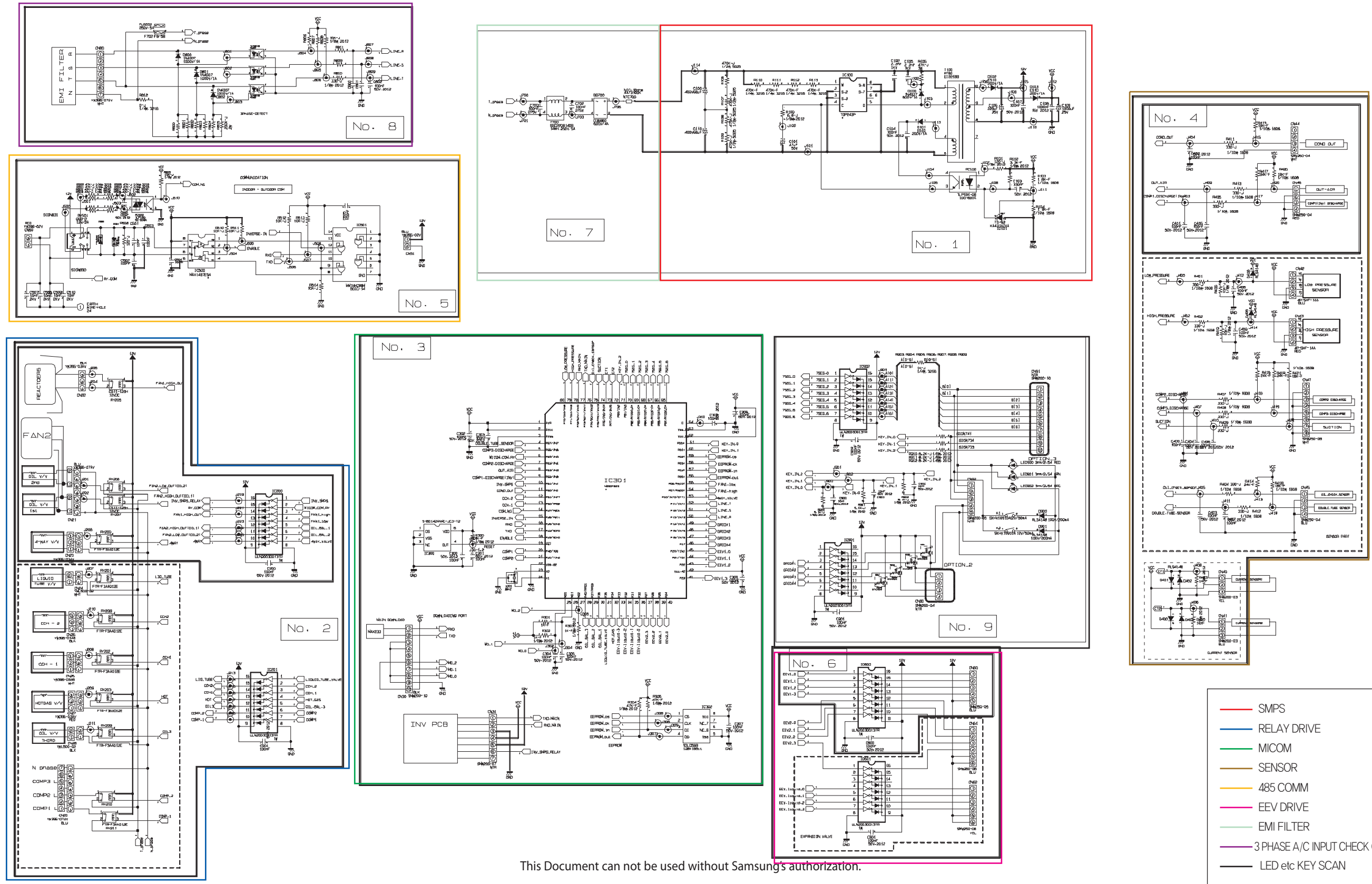
7. Wiring Diagram



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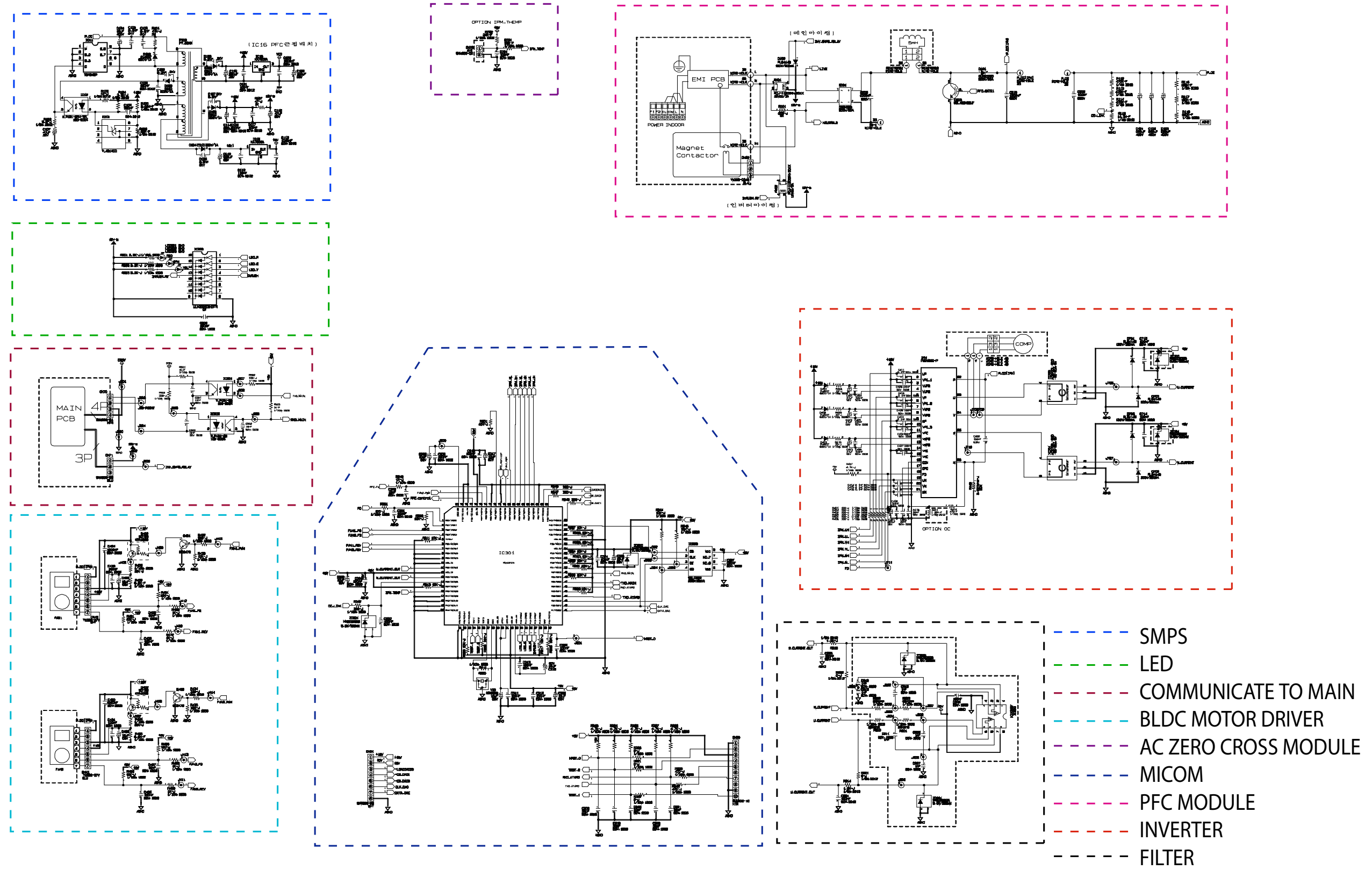
8-2 Outdoor Unit

MAIN PCB



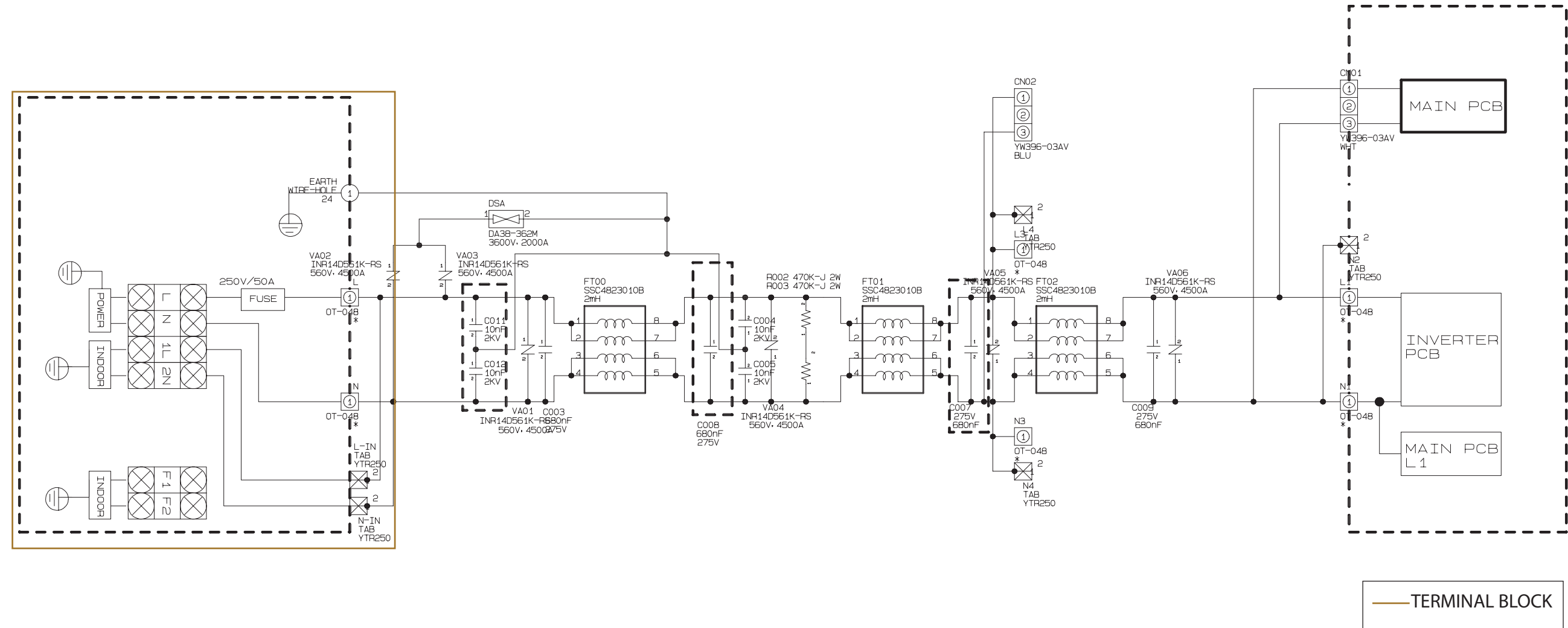
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■ INVERTER PCB



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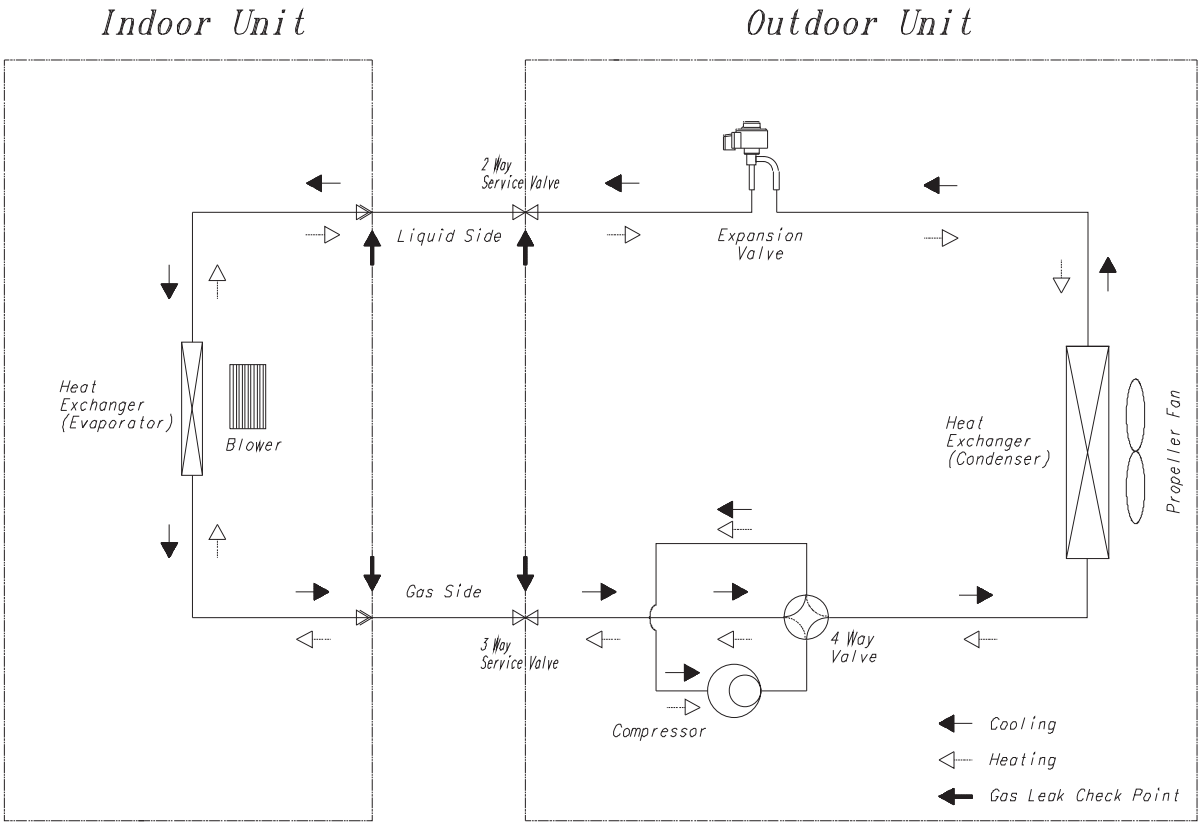
■ EMI PCB



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9. Preference Sheet

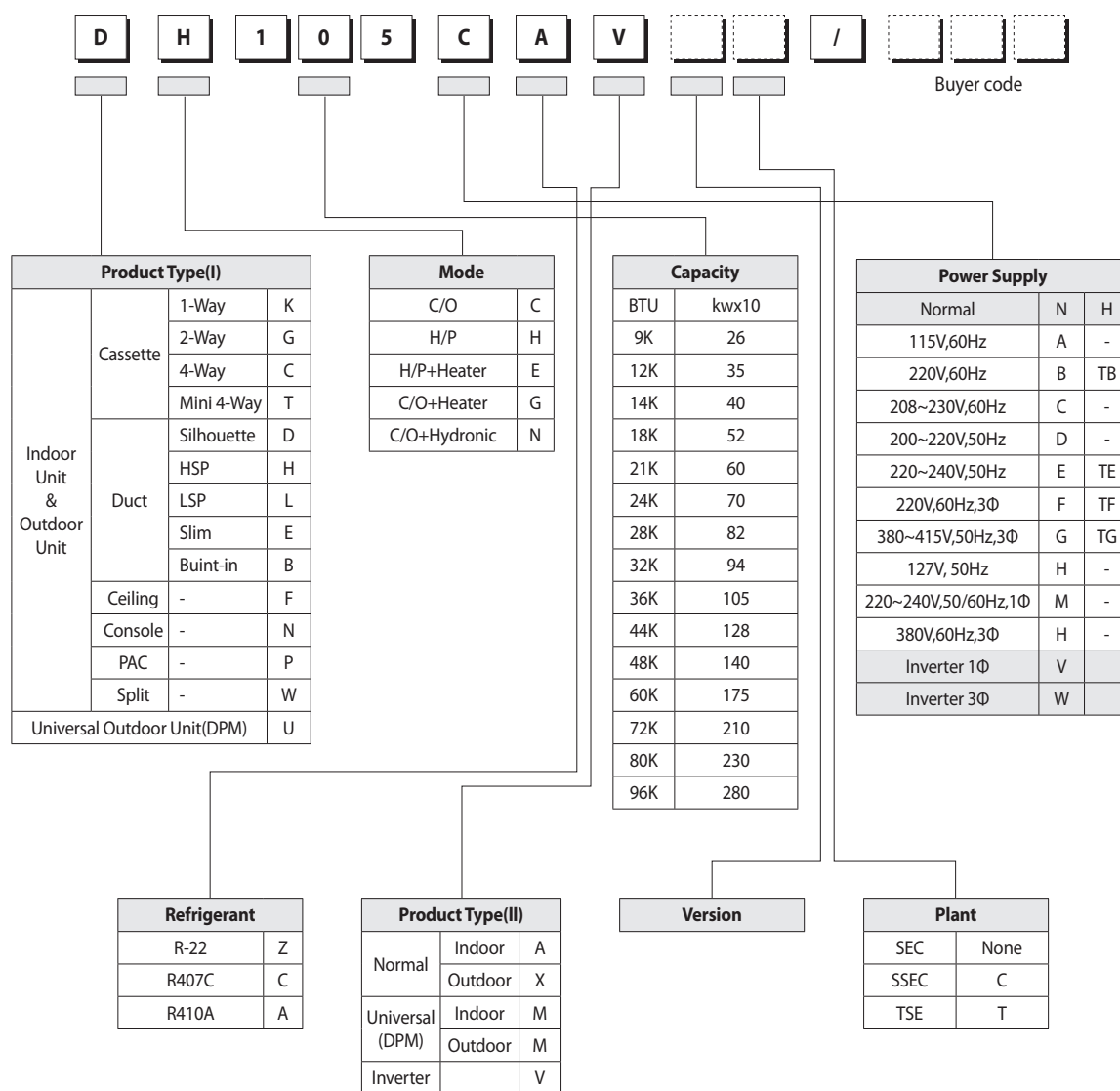
9-1 Refrigerating Cycle Diagram



9-2 Index of Model Name

* Project model code for New Built-in Product.

Model Code





GSPN(Global Service Partner Network)

| Area | Web Site |
|------------------|---|
| North America | http://service.samsungportal.com |
| Latin America | http://latin.samsungportal.com |
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